

NOTICE OF INTENT
for
INSTALLATION OF A METHANE GAS COLLECTION PIPELINE
NEW LUDLOW ROAD
SOUTH HADLEY, MASSACHUSETTS

Prepared for:

IPS – SOUTH HADLEY INC.
60 EAST MAIN STREET P.O. BOX 840
WARE, MA 01082

July 2015

Prepared by:

HAINES HYDROGEOLOGIC CONSULTING
141 OLD ENFIELD ROAD
BELCHERTOWN, MA 01007



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number

Document Transaction Number

South Hadley

City/Town

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (Note: electronic filers will click on button to locate project site):

<u>New Ludlow Road</u> a. Street Address	<u>South Hadley</u> b. City/Town	<u>01705</u> c. Zip Code
<u>Latitude and Longitude:</u>	<u>43*13'20.784"N</u> d. Latitude	<u>72*33'03.132"W</u> e. Longitude
<u>10</u> f. Assessors Map/Plat Number	<u>Lot 1 + 3</u> g. Parcel /Lot Number	

2. Applicant:

<u>James</u> a. First Name	<u>Malandrinos</u> b. Last Name	
<u>IPS - South Hadley Inc.</u> c. Organization		
<u>60 East Street P.O. Box 840</u> d. Street Address		
<u>Ware</u> e. City/Town	<u>MA</u> f. State	<u>01082</u> g. Zip Code
<u>413-967-7415</u> h. Phone Number	<u>IPS1@verizon.net</u> j. Email Address	<u></u> i. Fax Number

3. Property owner (required if different from applicant): Check if more than one owner

<u>Michael</u> a. First Name	<u>Sullivan</u> b. Last Name	
<u>Town of South Hadley</u> c. Organization		
<u>116 Main Street</u> d. Street Address		
<u>South Hadley</u> e. City/Town	<u>MA</u> f. State	<u>01705</u> g. Zip Code
<u></u> h. Phone Number	<u></u> j. Email address	<u></u> i. Fax Number

4. Representative (if any):

<u>David</u> a. First Name	<u>Haines</u> b. Last Name	
<u>Haines Hydrogeologic Consulting</u> c. Company		
<u>141 Old Enfield Road</u> d. Street Address		
<u>Belchertown</u> e. City/Town	<u>MA</u> f. State	<u>01007</u> g. Zip Code
<u>413-323-7156</u> h. Phone Number	<u>haineshydro@gmail.com</u> j. Email address	<u></u> i. Fax Number

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>\$500.00</u> a. Total Fee Paid	<u>\$237.50</u> b. State Fee Paid	<u>\$262.50</u> c. City/Town Fee Paid
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A. General Information (continued)

6. General Project Description:

The project involves the installation of a methane gas line to collect methane from the South Hadley landfill and utilize it for electric power generation at the Granby landfill. The work involves crossing a Bordering Vegetated Wetland creating 4422 square feet of temporary alteration in South Hadley. The wetland will be restored in place.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input checked="" type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input type="checkbox"/> Other | |

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Hampshire

a. County

1629; 3094

c. Book

b. Certificate # (if registered land)

110; 83

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number _____

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South Hadley

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet _____	2. linear feet _____
b. <input checked="" type="checkbox"/> Bordering Vegetated Weiland	4422 1. square feet _____	4422 ft ² 2. square feet _____
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet _____ 3. cubic yards dredged _____	2. square feet _____

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____ 3. cubic feet of flood storage lost _____	2. square feet _____ 4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____ 2. cubic feet of flood storage lost _____	3. cubic feet replaced _____

f. Riverfront Area
1. Name of Waterway (if available) - specify coastal or inland _____

2. Width of Riverfront Area (check one):
- 25 ft. - Designated Densely Developed Areas only
 - 100 ft. - New agricultural projects only
 - 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: NA square feet

4. Proposed alteration of the Riverfront Area:
NA
a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No
6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete Section B.2.f. above.



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MassDEP File Number _____

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

4. Restoration/Enhancement
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

a. square feet of BVW

b. square feet of Salt Marsh

5. Project Involves Stream Crossings

a. number of new stream crossings

b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Notice of Intent – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

- Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

2008

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.1.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

c. Submit Supplemental Information for Endangered Species Review:

- Percentage/acreage of property to be altered:

(a) within wetland Resource Area	0.01% - 0.104 acres
	percentage/acreage
(b) outside Resource Area	0.002% - 0.321 acres
	percentage/acreage
- Assessor's Map or right-of-way plan of site
- Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work:
 - Project description (including description of impacts outside of wetland resource area & buffer zone)
 - Photographs representative of the site

Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

(c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm).
Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694
Email: DMF.EnvReview-South@state.ma.us

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



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MassDEP File Number

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C. Other Applicable Standards and Requirements (cont'd)

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
-
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
1. Single-family house
 2. Emergency road repair
 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number _____

Document Transaction Number _____

South Hadley

City/Town

D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

Proposed Route for a Methane Collection Pipeline in South Hadley & Granby MA (sheets 1&2&3)

a. Plan Title

R.H. LeMaitre

Robert LeMaitre, PE/RLS

b. Prepared By

c. Signed and Stamped by

July 15, 2015

1"=50'

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. Attach NOI Wetland Fee Transmittal Form
9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

10214

2. Municipal Check Number

7/27/15

3. Check date

10215

4. State Check Number

7/27/15

5. Check date

Industrial Power Services Corp.

6. Payor name on check: First Name

7. Payor name on check: Last Name



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number

Document Transaction Number

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

<i>John M. Melandino</i> president	8/17/15
1. Signature of Applicant	2. Date
<i>Michael J. Sullivan</i> Town of South Hadley, MA	7-28-15
3. Signature of Property Owner (if different)	4. Date
<i>[Signature]</i>	8/17/15
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

New Ludlow Road South Hadley
 a. Street Address b. City/Town
\$500.00; \$237.50 state; \$262.50 town
 c. Check number d. Fee amount

2. Applicant Mailing Address:

James Malandrinos
 a. First Name b. Last Name
IPS - South Hadley Inc.
 c. Organization
60 East Street P.O. Box 840
 d. Mailing Address
Ware MA 01082
 e. City/Town f. State g. Zip Code
413-967-7415 IPS1@verizon.net
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

Michael Sullivan
 a. First Name b. Last Name
Town of South Hadley
 c. Organization
116 Main Street
 d. Mailing Address
South Hadley MA 01705
 e. City/Town f. State g. Zip Code
 h. Phone Number i. Fax Number j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

10214



Bank

America's Most Convenient Bank®
53-7054-2113

INDUSTRIAL POWER SERVICES CORP.

PO BOX 840
WARE, MASSACHUSETTS 01082

7/27/2015

PAY TO THE ORDER OF Town of South Hadley

\$ **262.50

Two Hundred Sixty-Two and 50/100*****

DOLLARS

Sandra Belis

AUTHORIZED SIGNATURE

MEMO

⑈010214⑈ ⑆211370545⑆ 8240176011⑈

Security features. Details on back.

10215



Bank

America's Most Convenient Bank®
53-7054-2113

INDUSTRIAL POWER SERVICES CORP.

PO BOX 840
WARE, MASSACHUSETTS 01082

7/27/2015

PAY TO THE ORDER OF Commonwealth of Massachusetts

\$ **242.50

Two Hundred Forty-Two and 50/100*****

DOLLARS

MA Department of Revenue

Sandra Belis

AUTHORIZED SIGNATURE

MEMO

⑈010215⑈ ⑆211370545⑆ 8240176011⑈

Security features. Details on back.

10216



Bank

America's Most Convenient Bank®
53-7054-2113

INDUSTRIAL POWER SERVICES CORP.

PO BOX 840
WARE, MASSACHUSETTS 01082

7/27/2015

PAY TO THE ORDER OF Commonwealth of Massachusetts-NHESP

\$ **300.00

Three Hundred and 00/100*****

DOLLARS

Commonwealth of Massachusetts-NHESP

Sandra Belis

AUTHORIZED SIGNATURE

MEMO

⑈010216⑈ ⑆211370545⑆ 8240176011⑈

Security features. Details on back.

7009 2820 0003 2069 0073

CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

BOSTON, MA 02211

Postage	\$3.45	0007
Certified Fee	\$2.80	10
Return Receipt Fee (Endorsement Required)	\$0.00	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$6.74	



Sent to **DEP**
 Street, Apt. No., or PO Box No. **PO 4062**
 City, State, ZIP+4 **Boston MA 0211**

PS Form 3800, August 2006 See Reverse for Instructions

7009 2820 0003 2068 9541

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

WESTBOROUGH, MA 01581

Postage	\$7.45	0007
Certified Fee	\$2.80	08
Return Receipt Fee (Endorsement Required)	\$0.00	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$5.95	



Sent to **NHES 12-20**
 Street, Apt. No., or PO Box No. **DIVISION OF FISHERIES & WILDLIFE**
 City, State, ZIP+4 **ONE RABBIT HILL ROAD**
WESTBOROUGH MA 01581

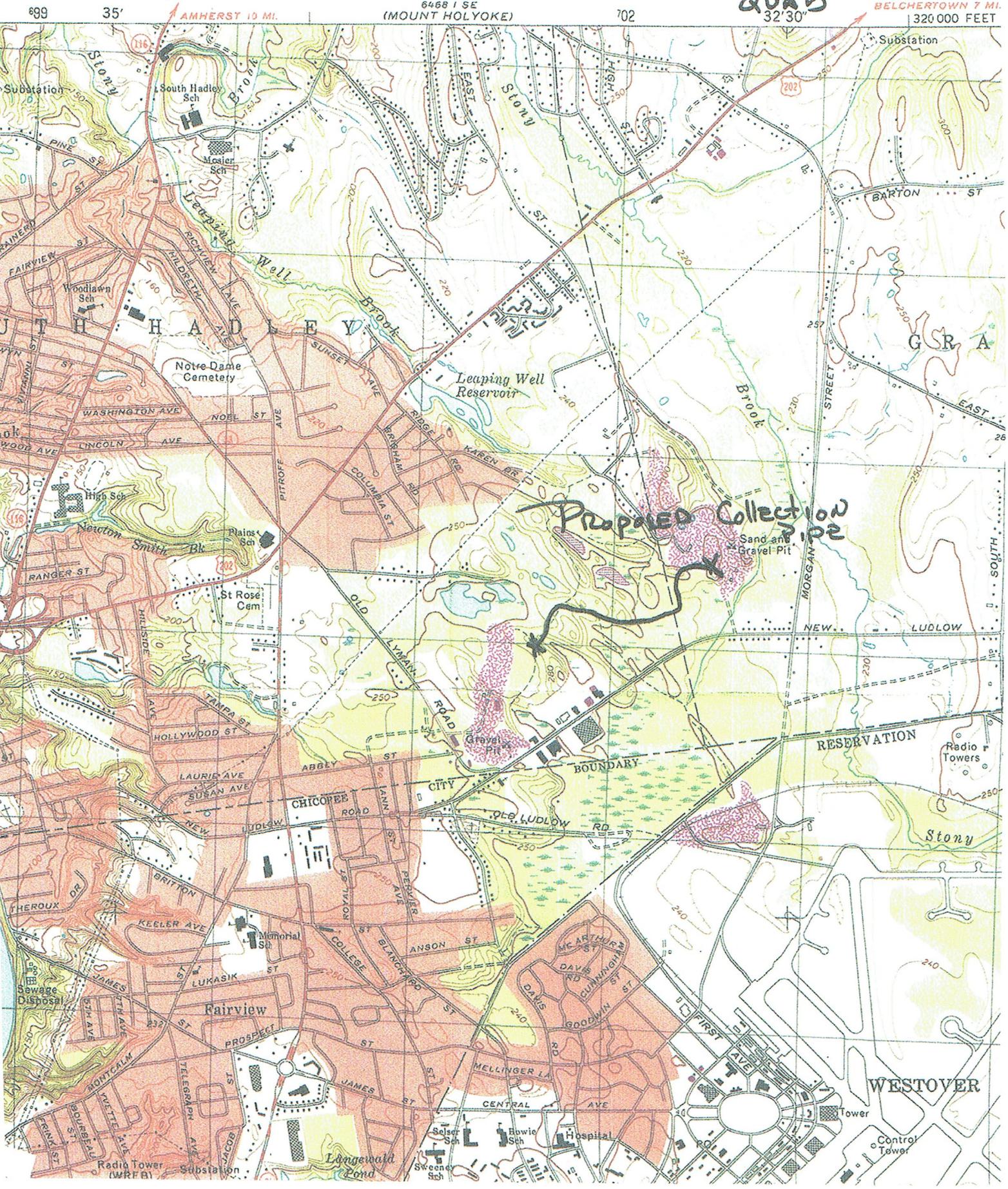
PS Form 3800, August 2006 See Reverse for Instructions

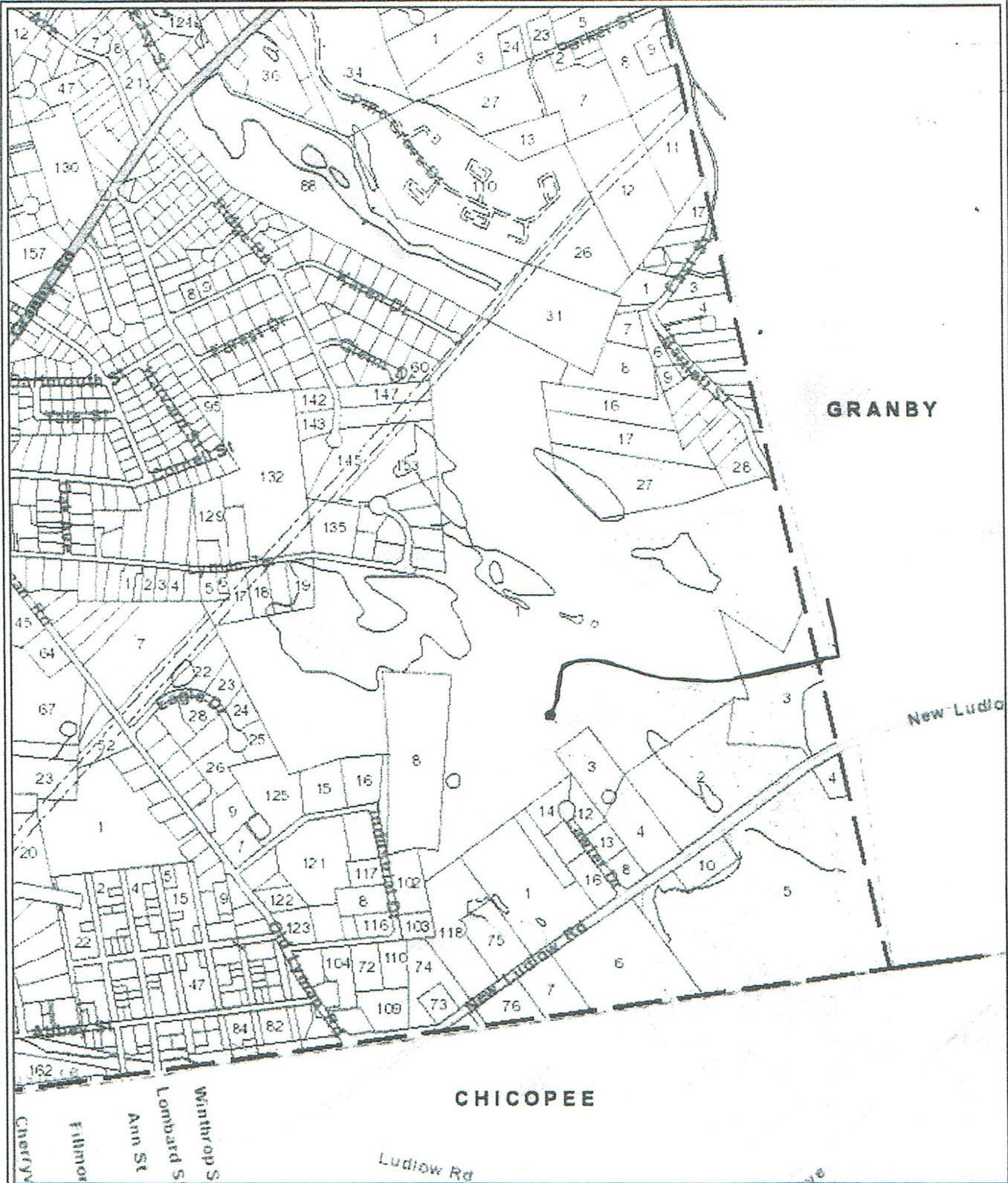
South Hadley
+ Granby MA

LOCUS MAP METHANE COLLECTION PIPELINE

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

USGS
Springfield North
QUAD
32°30'
BELCHERTOWN 7 MI.
320 000 FEET





CHICOPEE

GRANBY

South Hadley, MA

1 Inch = 966 Feet

July 27, 2015



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

www.cai-tech.com

CAI Technologies

25/11/15

SITE AND WORK DESCRIPTION

INTRODUCTION

The work proposed in these Notices of Intent occurs in two towns, South Hadley and Granby, Massachusetts. The work involves the installation of a methane collection gas pipeline between the South Hadley and Granby landfills. Currently there is a methane-burning generator generating electricity at the Granby landfill and feeding the grid. The South Hadley landfill collects methane and flares it off. The proposed route utilizes existing landfill roads and cart paths wherever possible to minimize disturbance of vegetation. The wetland crossing has been designed to minimize wetland alteration but is necessitated by abutting land restrictions and the location of utilities in New Ludlow Road. A waiver from the *South Hadley Wetlands By-law* regulations is required for work within the wetland and the 50-foot buffer zone. Most of the route is within area mapped by the Massachusetts *Natural Heritage and Endangered Species Program* (NHESP) as "Priority Habitats of Rare Species".

Temporary alterations to wetlands subject to the *Massachusetts Wetlands Protection Act* will occur in both South Hadley (4422 ft²) and Granby (1046 ft²). All disturbed wetlands will be restored in place. Disturbance of wetland soils and vegetation is being reduced by the use of swamp mats during construction. Temporary wetland alterations under *Section 404 of the Federal Clean Water Act* and the *401 Water Quality Certification Program* total 1902 ft² and 4755 ft², respectively.

Impacts to the adjacent wetlands will be prevented through the use of appropriate sediment and erosion controls and soil stabilization measures.

SITE DESCRIPTION

The work site consists of the linear route of the proposed methane pipe across several properties in South Hadley and Granby between the two landfills. The pipe will be installed in an existing cart path and roadway, and overland through uplands and wetlands. The route has been selected to minimize wetland impacts where possible. The route starts on the gas collection/flaring site on the South Hadley landfill, traverses the haul road on the landfill, traverses eastward down a cart path, then travels overland through an upland forest and across a wetland system to the Granby landfill access road to the methane-fueled generation site.

In South Hadley the upland area is a mix of deciduous hardwood forest and White Pine forest with a sparse shrub understory. The route through most of the upland is via haul roads in the landfill or an established cart path through the woods that will be restored to current conditions upon completion of the project.

In Granby the upland route will be in or adjacent to the landfill access road or haul road. Those areas will be restored to present topography and soil conditions. The wetland resource area under jurisdiction of *Section 404 of the Federal Clean Water Act*, the *Massachusetts Wetlands Protection Act*, and the *South Hadley and Granby Wetlands By-laws* are **Bordering Vegetated Wetlands**, **Isolated Wetlands** and the **100-foot Buffer Zone** to those resource areas. Most of the site is within areas mapped by NHESP as “Estimated Habitats of Rare Wildlife” and “Priority Habitats of Rare Species” (2008). Portions of the work area were subject to a review by NHESP under a previous filing. A copy of this filing will be submitted to NHESP for review and comment.

The **Bordering Vegetated Wetlands** on the site are comprised of wooded swamps with a shrub swamp understory. The wetlands were delineated using the three technical criteria of vegetation, soils and hydrology specified by *Section 404 of the Federal Clean Water Act* and the *Massachusetts Wetlands Protection Act*. Wetland Data Forms documenting the delineation are attached. Portions of the wetland delineation had been previously reviewed and approved under former Notices of Intent for work on the South Hadley and Granby landfills. These boundaries have been reviewed and corroborated by us. The vegetation in the wetlands includes Red Maple, Tupelo, White Oak, White Pine, Shadbush, Highbush Blueberry, Winterberry Holly, Arrowwood, Nannyberry, Cinnamon Fern, Sensitive Fern, Marsh Fern, Dewberry, sedges, rushes and asters.

The soils in the wetlands range from seasonally saturated dark brown sandy loam over mottled sandy loam subsoil to seasonally saturated black silty loam over gleyed silty loam subsoil. Both groundwater and surface water run-off supply water to the wetland. There are no streams flowing into the wetland. Portions of the wetland are seasonally flooded. Work in this resource area includes temporary alteration for installation of a methane collection gas line connecting the two landfills.

There is also a previously delineated **Isolated Wetland (K)**, to the north of the proposed methane collection pipeline, under jurisdiction of the *South Hadley Wetlands By-law* and *Section 404 of the Federal Clean Water Act*.

The **100-foot Buffer Zone** to the **Bordering Vegetated Wetlands** (state and local jurisdiction) and **Isolated Wetland** (local jurisdiction) extends into the work area. Most of the work in the buffer zone is within an existing cart path or landfill roads. These areas will be restored to current grade and soil conditions. Some of the work does extend into the 50-foot South Hadley setback. This work is in both the cart path and in naturally vegetated areas. Work within the 50-foot setback requires a waiver from the *South Hadley Wetlands By-law* regulations.

Most of the work site is within mapped NHESP “Priority Habitats of Rare Species”. Portions of the work area in South Hadley were previously reviewed by the Program under the plans to expand the landfill (NHESP #06-20751). A copy of this Notice of Intent is being submitted to NHESP for review and comment.

WORK DESCRIPTION

The proposed work involves the installation of a methane collection gas pipeline connecting the South Hadley flaring tower and the existing methane gas-burning generators at the Granby landfill. The work includes temporary disturbance of uplands and wetlands with restoration of vegetation, soils and topography in place. Most of the upland route is via existing landfill haul roads and cart paths. The pipeline will cross over an existing water main beneath the abandoned section of Bartlett Street in South Hadley.

Swamp mats will be used where necessary to minimize impacts to wetland soils and vegetation. The mats will be removed upon the completion of work.

Special measures are proposed to protect the water main. Logs will be placed across overland portions of the pipeline route to discourage ATV usage. Impacts to the adjacent wetlands will be prevented through the use of appropriate sediment and erosion controls and soil stabilization measures.

The pipe will be installed by digging a trench, placing the pipe in the trench and backfilling to current grade and vegetation and soil conditions. In wetland areas a 24" concrete sleeve will be installed in sections and the pipe will be slid through it. The sleeve will prevent the pipe from floating in the groundwater. The route of the pipeline through vegetated areas will be adjusted where possible to route around significant trees. The work shall be performed in the following manner.

1. Install silt fence with straw wattles. The route will be adjusted slightly to minimize impact to trees.
2. Convene pre-construction meeting with contractor and wetland scientist. The Conservation Commission will be informed of this meeting and will be invited to attend. The purpose of the meeting is to review construction methodology and environmental issues.
3. Place two rows of 3-foot wide swamp mats as shown on the plan with a 4-foot gap between them. Trees will be removed as necessary. Mats will not be dragged across the ground surface. Mats will be placed on shrubs in one direction, laying them down to minimize shrub breakage.
4. Excavate a trench 3-4 feet deep between the mats with a tracked excavator. The spoils will be placed either in a dump truck or hopper. Topsoil and subsoil will be kept separated.
5. Place sections of 24" bell and spigot concrete pipe in the trench.
6. Backfill that section of the trench with the subsoil first and then the topsoil. Natural grades will be maintained.
7. All work in wetland areas will be limited to between the silt fences.
8. Remove and properly dispose of all excess or unsuitable material.
9. Remove the swamp mats.
10. Replace all removed trees and shrubs with the same species at a ratio of 2:1.

11. Seed disturbed areas with "New England Wetmix™" or its approved equivalent at its recommended application rate.
12. Monitor the success of the seeding and shrub survival for two growing seasons. Failed shrubs, either from swamp mat or transplant damage, will be replaced in kind. All unstable soils will be reseeded with "New England Wetmix™" or its approved equivalent.
13. Remove the silt fence as soon as all soils are stabilized. The straw wattles will either be cut open and used as mulch or removed.
14. If temporary dewatering is necessary, it will be done by pumping from a stone-lined sump and discharging to a dewatering bag in the upland. Flow from the dewatering bag will be monitored for turbidity.
15. A 14-inch HDPE pipe will be installed from upland work areas through the concrete sleeve. This pipe will be pressure-tested for leaks.

A summary of wetland impacts follows.

	<u>South Hadley</u>	<u>Granby</u>	<u>Total</u>
Wetland Protection Act			
Silt fence to silt fence 11.5'	4422 ft ²	1046 ft ²	5468 ft ²
Section 404 Clean Water Act			
Width of trench 4'	1538 ft ²	364 ft ²	1902 ft ²
401 Water Quality Certificate			
Outside edge swamp mats 10'	3845 ft ²	910 ft ²	4755 ft ²
Significant trees (> 3" dbh) possibly affected			
50-foot buffer	5	0	0
In wetland	17	2	19

All removed trees will be replaced at a 2:1 ratio with the same or similar species as saplings.

Impacts to wetlands under jurisdiction of the *Massachusetts Wetlands Protection Act* are measured from the outside edges of the siltation fence. Impacts to wetlands under jurisdiction of *Section 404 of the Federal Clean Water Act* are measured from the inside of the swamp mats. Impacts to wetlands under the *401 Water Certification Program* are measured from the outside of the swamp mats.

Logs and branches from larger trees will be placed across the cleared overland path of the pipeline to discourage use by ATVs and other off-road vehicles.

Where the proposed gas pipeline crosses Bartlett Street (abandoned), special care will be taken to protect the existing water main.

The exact depth of the main is unknown. Prior to placing the proposed pipeline over the water main careful probing of the main will be done to determine its exact depth and location. The pipeline will either be placed in a sleeve supported on concrete piers if it cannot be separated from the main at least one foot or, where greater than one-foot separation is achievable, the pipeline will be placed without a sleeve. This design has been discussed with the South Hadley Water Department. The Department will be contacted prior to working in this area.

If temporary dewatering is required through the wetland areas, it will be accomplished by pumping from a stone-lined sump and discharging to a dewatering bag in the upland. The water quality from flows from the bag will be monitored and adjustments will be made as needed to prevent impacts to the wetlands.

The success of the stabilization effort will be monitored and adjustments will be made as necessary. Stressed or dead vegetation will be replaced as needed.

Upon completion of the work and after stabilization of all soils, the silt fence will be removed and the straw wattles will either be removed or opened up and spread as mulch.

The work as proposed will not result in the loss of any wetland areas. The re-establishment of existing soil conditions and grades and the replanting of the area with indigenous vegetation will restore the functions of the wetland areas.

CONCLUSION

The proposed work involves the installation of a methane collection pipeline between the South Hadley and Granby landfills in South Hadley and Granby, Massachusetts. The pipeline will be installed in landfill roads, upland cart paths, upland woods and forested wetlands. The pipeline will be below grade and all areas will be restored to current grades and soil conditions and planted as needed with indigenous vegetation. The resource areas include **Isolated Wetland** and **Bordering Vegetated Wetland** and their associated **100-foot Buffer Zone**. The pipeline is within mapped NHESP priority habitats and therefore the Notices of Intent are being submitted to the Program for review. Impacts to the wetlands will be prevented through the use of swamp mats and appropriate sediment and erosion controls, soil stabilization measures and restoration procedures.