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Massachusetts Department of Environmental Protection Transmittal Form for Permit Application and Payment

Instructions

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Your check should be made payable to the Commonwealth of Massachusetts. Please mail your check along with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three (3) copies of this form will be needed.

Copy 1 (the original) must accompany your permit application.

Copy 2 must accompany your fee payment.

Copy 3 should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to DEP, P.O. Box 4062, Boston, MA 02211

For DEP Use Only

Permit No. _____
Rec'd Date _____
Reviewer _____

A. Application Information

DEP Permit Code (the 7 or 8 character code from first page of permit application instructions):

BRPWM08A

Name of Permit Category:

NPDES Stormwater General Permit

Type of Project or Activity:

Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)

B. Applicant Information (Firm or Individual)

Name of Firm:

Division of Capital Asset Management

Or, if party needing this approval is clearly an individual:

Individual's Last Name:

First Name

MI

Street Address

One Ashburton Place, 15th Floor

City/Town

Boston

State

MA

Zip Code

02108

Telephone Number

(617) 727-4030 ext.

Contact:

Michael McKimmey, P.E., Deputy Commissioner

e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Name of Facility, Site or Individual

Lancaster Complex

DEP Facility Number (if Known)

Street Address

Old Common Road

e-mail address:

(optional)

City/Town

Lancaster

State

MA

Zip Code

01523

Telephone Number

() ext.

D. Application Prepared by (if different from Section B)

Name of Individual or Firm:

Malcolm Pirnie, Inc.

Address

500 Edgewater Drive, Suite 566

City/Town

Wakefield

State

MA

Zip Code

01880

Telephone Number

(781) 224-4488 ext.

Contact:

Robert Winn, P.E.

LSP Number (21E only)

E. Permit - Project Coordination

Is this project subject to MEPA review? ☐ yes ☒ no

If yes, indicate the project's EOE file number (assigned when an Environmental Notification Form is submitted to the MEPA unit)

EOEA #

Is an Environmental Impact Report Required? ☐ yes ☒ no

Is this application part of a larger project for which two or more DEP permits are being or will be sought? ☐ yes ☒ no

List any other DEP permits that apply to this project:

Permit Category	Date of Submission (tentative or actual)	Transmittal Number (if application already submitted)

F. Amount Due

Special Provisions:

☒ Fee Exempt* (city, town or municipal housing authority) (state agency if fee is \$100 or less)

☐ Hardship Request [payment extensions according to 310 CMR 4.04(3)(c)]

☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10)

*There are no fee exemptions for 21E, regardless of applicant status

Check #:	Dollar Amount:	Date:
Please make check payable to the Commonwealth of Massachusetts and mail check and one copy of this form to DEP, P.O. Box 4062, Boston, MA 02211		



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Watershed Management

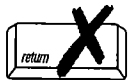
W035906
Transmittal Number

BRP WM 08A NPDES Stormwater General Permit
Notice of Intent for Discharges from Small Municipal Separate
Storm Sewer Systems (MS4s)

Facility ID (if known)

A. Instructions

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



Submission of this Notice of Intent constitutes notice that the entity named at item B1. of this form intends to be authorized by the DEP General Permit issued jointly with EPA for stormwater discharges from the small municipal separate storm sewer system (MS4), in the location identified at item B2. of this form. Submission of the Notice of Intent also constitutes notice that the party identified at item B1. has read, understands and meets the eligibility conditions of Part I.B. of the NPDES Small MS4 General Permit, agrees to comply with all applicable terms and conditions of the NPDES Small MS4 General Permit, and understands that continued authorization to discharge is contingent on maintaining eligibility for coverage. **In order to be granted coverage, all information required on BRP WM 08A, including the Stormwater Management Program Summary and Time Frames form, must be completed. Please read the permit and make sure you comply with all requirements, including the requirement to develop and implement a stormwater management program.**

B. Applicant Information

1. Small MS4 Operator/Owner Information:

Michael McKimney, P.E., Division of Capital Asset Management

Name

One Ashburton Place, 15th Floor

Mailing Address

Boston

Massachusetts

City/Town

State

(617) 727-4030,

Telephone Number

Email (if available)

2. Municipality Name

The Commonwealth of Massachusetts, Division of Capital Asset Management: Lancaster Complex.

City/Town

3. Legal Status:

☐ Federal

☐ City/Town

☒ State

☐ Tribal

☐ Private

☐ Other public entity:

Specify Public Entity

4. Other regulated MS4(s) within municipal boundaries:

Not Applicable

5. Based on the instructions provided in Part I of the NPDES Small MS4 General Permit, have the eligibility criteria for "listed species" and critical habitat been met?

☒ yes

☐ pending

☐ no



Massachusetts Department of Environmental Protection
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Notice of Intent for Discharges from Small Municipal Separate
Storm Sewer Systems (MS4s)

Facility ID (if known)

B. Applicant Information (cont.)

6. Based on the instructions provided in Part I of the NPDES Small MS4 General Permit, have the eligibility criteria for protection of historic properties been met?

☐ yes ☒ pending ☐ no

Note:
Section C may
be duplicated to
accommodate a
larger list of
receiving waters

C. Names of (Presently Known) Receiving Waters

Receiving Water:	No. of Outfalls	Listed as Impaired?	Impairment
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____
Name _____	Number _____	☐ Yes ☐ No	Specify _____



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Storm Sewer Systems (MS4s)

Facility ID (if known)

D. Stormwater Management Program Summary

1. Public Education:

1A BMP ID #	Mark Roberts Responsible Dept./Person Name	Number of education materials distributed.
Education for commercial activities.		
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal

2. Public Participation:

N/A BMP ID #	Not Applicable Responsible Dept./Person Name	Not Applicable Specify Measurable Goal
Not Applicable Specify Best Management Practice		
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal



Massachusetts Department of Environmental Protection
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BRP WM 08A NPDES Stormwater General Permit

**Notice of Intent for Discharges from Small Municipal Separate
Storm Sewer Systems (MS4s)**

Facility ID (if known)

D. Stormwater Management Program Summary (Cont.)

3. Illicit Discharge Detection and Elimination:

3A

BMP ID #

Conduct dry weather sampling
of outfalls.

Mark Roberts

Responsible Dept./Person Name

Based on results, determine if
outfalls are polluted.

3B

BMP ID #

If outfalls are polluted,
determine the source.

Mark Roberts

Responsible Dept./Person Name

Identify outfalls' tributaries and
investigate drainage system.

3C

BMP ID #

If outfalls are polluted,
eliminate the sources.

Mark Roberts

Responsible Dept./Person Name

Resample outfalls to verify
polluted sources are removed.

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal

4. Construction Site Runoff Control:

N/A

BMP ID #

Not Applicable

Specify Best Management Practice

Not Applicable

Responsible Dept./Person Name

Not Applicable

Specify Measurable Goal

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Watershed Management

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BRP WM 08A NPDES Stormwater General Permit
Notice of Intent for Discharges from Small Municipal Separate
Storm Sewer Systems (MS4s)

Facility ID (if known)

D. Stormwater Management Program Summary (cont.)

7. BMPs for Meeting TMDL:

N/A

BMP ID #

Not Applicable

Specify Best Management Practice

Not Applicable

Responsible Dept./Person Name

Not Applicable

Specify Measurable Goal

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal

BMP ID #

Specify Best Management Practice

Responsible Dept./Person Name

Specify Measurable Goal

E. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

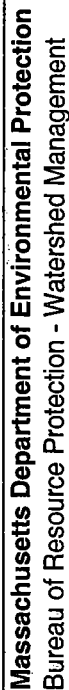
Kenneth M. Tilden, Deputy Director

Printed Name

Kenneth M. Tilden

Signature

7/28/03
Date



**BRP WM 08A NPDES Stormwater General Permit Notice of Intent
for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)**

F. Storm Water Management Program Time Frames

Transmittal Number
W035906

W035906

Facility ID (if known)

Page 1 of 1

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APPENDIX A
Assessment Letter Report

July 25, 2003

Mr. Mark Roberts
Project Manager
Division of Capital Asset Management
One Ashburton Place, 15th Floor
Boston, MA 02108

RE: Division of Capital Asset Management (DCAM) Surplus Properties
Lancaster Complex Assessment Letter Report

Dear Mr. Roberts:

In accordance with our February 5, 2003 proposal, Malcolm Pirnie has completed a site assessment at the Lancaster Complex (Property) to determine if the Property is required to meet the National Pollutant Discharge Elimination System (NPDES) Phase II Storm Water regulations. The Property is located in Lancaster, Massachusetts. The site assessment consisted of two site visits on February 20, 2003 and June 12, 2003.

The following sections describe the type of information documented during the assessment, visual observations made during our site visits, and conclusions based on our assessment. The Division of Capital Asset Management (DCAM) provided maps of the Property that show the existing features and the number of buildings. DCAM also provided a knowledgeable person to assist during our site assessment.

A. Assessment Data

The site assessment focused on the storm water conveyance system, potential storm water pollution issues, and any observed outfalls and discharges. Prior to each Property site visit, an assessment was completed to identify drainage piping on available mapping, nearby waterbodies, waterbodies on the Massachusetts 303(d) List of Impaired Waters, waterbodies on the Massachusetts Year 2002 Integrated List of Waters, threatened or endangered species, and historic sites on or near the Property.

The following information was documented:

- Storm Water Assessment
 - Site description
 - Property description
 - Site activity

- Buildings on site
- Based on available mapping, the location of:
 - Buildings
 - Outfalls
 - Drainage directions
 - Nearby waterbodies
 - Noticeable pollution issues
 - Drainage piping and structures that discharge offsite
- Visible Observations:
 - Waterbodies on the Massachusetts 303(d) List of Waters
 - Waterbodies on the Massachusetts Year 2002 Integrated List of Waters
 - Visible pollution issues
 - Potential pollution issues
 - Other observations
- Outfall Assessment
 - Pipe type and size
 - Evidence of flow
 - Visual inspection of flow (i.e., color, odor, turbidity, structural damage, and presence/absence of oil)
 - Estimated flow depth
 - Presence of standing water
 - Visual inspection of standing water (i.e., color, odor, turbidity, structural damage, and presence/absence of oil)
 - Unusual piping or ditches

Attachment A includes the Outfall Assessment Sheets for conducting outfall assessments. The sheet has been completed for three outfalls designated as Outfall #1, Outfall #2, and Outfall #3 that were found during the assessment.

B. Assessment Observations

The site maps provided by DCAM were used as a guide to conduct the assessment. Attachment B includes Figure 1 (shows the location of buildings, outfalls, land cover types, and photos taken during the assessment) and Figure 2 (shows waterbodies in vicinity of Property). Attachment C includes photographs taken during the site assessment. Selected photographs are referenced in the report.

The Property consists of an active complex used by DCAM, Kennedy Action Corps., Department of Youth Services (DYS), Department of Agriculture, and state auditors. DCAM's Office of Surplus Property is headquartered at the Property. The extent of the Property is shown in Attachment B, Figure 1. Still River Road and Old Common Road are located north and south of the Property, respectively.

The Property consists of 21 buildings and various access roadways and parking lots. The

following buildings are on the Property (occupants and building use are given for each building):

- Thomas Stafford House
 - Occupant: Dept. of Agriculture
 - Building use: vacant
- Mary Lamb Cottage
 - Occupant: DCAM
 - Building use: vacant
- Abner Pollard House
 - Occupant: DCAM
 - Building use: vacant
- Rogers Cottage
 - Occupant: DCAM
 - Building use: vacant
- Fay Cottage
 - Occupant: DCAM
 - Building use: computer equipment storage
- Oliver Carter House
 - Occupant: State auditors
 - Building use: office
- Garage, Barn, Sheds
 - Occupant: DCAM
 - Building use: vehicle maintenance/storage, sand/salt storage, and lubricant storage
- Tool Shop
 - Occupant: DCAM
 - Building use: vacant
- Interfaith Chapel
 - Occupant: DCAM
 - Building use: vacant
- Auto Shop
 - Occupant: DCAM
 - Building use: parking for sanding trucks
- Putnam Chapel
 - Occupant: DCAM
 - Building use: vacant

- Campbell Cottage
 - DYS
 - Building use: home for children
- Clara Barton Cottage
 - Occupant: Kennedy Action Corps.
 - Building use: home for children
- Storehouse
 - Occupant: DCAM
 - Building use: storehouse and plumbing and electrical shop
- School
 - Occupant: Kennedy Action Corps.
 - Building use: school for children
- Richardson Cottage
 - Occupant: DCAM
 - Building use: vacant
- Cafeteria
 - Occupant: DCAM
 - Building use: vacant
- Hospital
 - Occupant: Kennedy Action Corps. and DCAM
 - Building use: home for children
- Wellington Hall
 - Occupant: Kennedy Action Corps.
 - Building use: administration office
- Power Plant
 - Occupant: DCAM
 - Building use: boiler to heat buildings
- White Cottage
 - Occupant: DCAM
 - Building use: office

Within the Property, the area consists of impervious surfaces occupied by the buildings, roadways, and parking lots. All roadways are plowed to allow access on the Property. If needed, the roadways are sanded with a sand/salt mixture that contains six percent salt. Based on past

winters, the Property is sanded no more than five times per year.

Large areas of pervious surfaces surround the buildings as open fields and wooded areas (Attachment C, Figures 1-9 and 1-10). Pervious surfaces also include lawn areas around the immediate vicinity of the buildings (Attachment C, Figures 1-13 and 1-14).

Based on available mapping and a visual assessment, it does not appear that storm water drainage pollution should be an issue on the Property. However, the site visit was conducted during the winter when there was snow cover. Malcolm Pirnie recommends that a follow up visit be conducted in the spring to confirm the findings conveyed herein.

Storm water from the northern part of the Property drains to three outfalls (Outfall #1, Outfall #2, and Outfall #3). These three outfalls drain to open fields located next to Rte 110 (Still River Road). Storm water for the remaining portion of the Property drains as overland flow. Outfall #1 (Attachment C, Figures 1-1 and 1-2) is a 12-inch polyvinyl chloride (PVC) pipe that accepts runoff from two catch basins located next to the School and Hospital buildings and one catch basin located south of the generator. The outfall drains in an open field north of the 500-gallon No. 2 oil tank and generator (Attachment C, Figure 2-3). At the time of the assessment, the outfall had dry weather flow. The flow was clear, odorless, and not turbid. Outfall #2 (Attachment C, Figures 1-7 and 1-8) is an 8-inch PVC pipe that accepts runoff from two catch basins located next to the Storehouse and Power Plant buildings. The outfall drains in an open field south of Route 110. At the time of the assessment, the outfall had dry weather flow. The flow was clear, odorless, and not turbid. Outfall #3 (Attachment C, Figure 1-15) is a buried pipe that accepts flow from a catch basin located on a parking lot east of Richardson Cottage. The outfall drains to an open field south of Route 110. At the time of the assessment, the outfall had dry weather flow. The flow was clear, odorless, and not turbid. Attachment A includes the Outfall Assessment Sheets for Outfalls #1, #2, and #3.

No visible pollution issues or potential pollution issues were observed. The Property contains the following aboveground storage tanks (ASTs) located outside of the buildings. All of these ASTs showed no evidence of leakage and had secondary containment to prevent leakages unless otherwise noted:

- 500-gallon No. 2 oil (Attachment C, Figure 1-3).
- 275-gallon No. 2 heating oil.
- 1,500-gallon Gasoline (Attachment C, Figure 1-12).
- (2) 1,000-gallon No. 2 heating oil (Attachment C, Figures 1-5 and 1-11).
- (5) Propane tanks (Attachment C, Figures 2-4, 2-7, and 2-13).
- Petroleum Gasoline tank (Attachment C, Figure 2-15) with no secondary containment but located behind bollards.
- Empty tank (Attachment C, Figure 2-16) with no secondary containment.

The Property contains the following underground storage tanks (USTs):

- 20,000-gallon No. 2 oil (Attachment C, Figure 1-6)
- 1,000-gallon No. 2 heating oil
- Grease holding tank

The Property contains the following drums and ASTs that are located inside the Power Plant, Garage, barns, and sheds building, Thomas Stafford House, and Putnam Chapel:

- (4) 5-gallon No. 2 heating oil drums
- (2) 55-gallon waste oil drums
- (6) 55-gallon motor oil drums
- (2) 275-gallon No. 2 heating oil tank

A pump station (Attachment C, Figure 1-16) located in the northeast corner of the Property is actively used. In addition, a generator exists in the northern part of the Property next to the 500-gallon No. 2 AST (Attachment C, Figure 1-4). The Pump Station uses propane for the motor and electric heat.

The Property is located within the Nashua Watershed. Nearby waterbodies include the Nashua River located northwest of the Property (Attachment B, Figure 2) and the Still River. The Nashua River and Still River are located on the north side of Route 110. The Nashua River (confluence with the North Nashua River in Lancaster to the confluence with the Squannacook River in Shirley, Groton, and Ayer, Massachusetts) is listed on the 2002 Integrated List of Waters as a Category 5 Water, "Waters Requiring a total maximum daily load (TMDL)". Category 5 Waters include those waters that are impaired due to one or more pollutants. The pollutants of concern for the Nashua River in this section include unknown causes, unknown toxicity, metals, nutrients, pathogens, taste, odor, and color, and turbidity. Still River (headwaters, Lancaster to confluence with Nashua River in Harvard/Lancaster, Massachusetts) is listed on the 2002 Integrated List of Waters as a Category 3 Water, "No Uses Assessed". This is not an impaired waterbody. Outfalls #1, #2, and #3 do not drain directly to the Nashua and Still Rivers, but to a field located on the Property on the south side of Route 110.

The U.S. Fish and Wildlife list of endangered and threatened species for Massachusetts was used to verify whether such species are located near the Property. In addition, the Massachusetts Natural Heritage and Endangered Species Program (NHESP) was used to check for any rare species that may inhabit the surrounding Property. The "NHESP 1999-2001 Estimated Habitats for Rare Wildlife: For Use with the Massachusetts Wetlands Protection Act Regulations (310 CMR 10)", "NHESP 1999-2001 Priority Habitats for State-Protected Rare Species: Not Equivalent to 'Significant Habitat' as designated under Massachusetts Endangered Species Act", and the "NHESP BioMap Core Habitat" datalayers were used to identify whether the Property was within an area of rare wildlife. Based on the most current information available, it was determined that the Property is located near habitats of state-protected rare wildlife that live in wetland areas and places of known habitats for rare species that have been documented within the last 25 years. In addition, the Property is located in an area that is considered to be a viable habitat for rare species and natural communities in Massachusetts. A formal request will need to be made to the NHESP to determine whether U.S. Fish and Wildlife listed species are located near the Property. A formal letter, with a Rare Species Information Request Form, was sent to the NHESP to verify that rare species exist in the vicinity of the Property (Attachment D). The NHESP responded with a letter that stated the Property abuts priority/estimated habitat for "Special Concern", threatened, and endangered species (Attachment D). "Special Concern"

species include those that have suffered a decline in recent years and, if continue to do so, will be listed as threatened species. However, no species listed by the U.S. Fish and Wildlife are listed by the NHESP.

The Property is considered to be a historic site. The Massachusetts Historical Commission (MHC) "State Register of Historic Places 2002" and "National Register of Historic Places" designates the Property as historical under the National Register District (NRDIS). The Property contains buildings (including Fay Cottage) that are part of the former Lancaster Industrial School for Girls. The Lancaster Industrial School for Girls is considered to be a historical site as listed in the National and State Registers of Historic Places. It was designated as a historical property of Lancaster in 1976. A formal letter, with a Project Notification Form, was sent to the MHC to verify that historic resources are not being affected by the Property (Attachment D). MHC has not yet replied. However, since construction projects including demolition, rehabilitation, and new construction are not current activities at the Property, the MHC will most likely determine that significant historic and archaeological resources are not affected.

C. Conclusions

Based on our assessment and the final Environmental Protection Agency/Massachusetts Department of Environmental Protection (EPA/MADEP) Storm Water Phase II municipal separate storm sewer system (MS4) NPDES requirements, we have concluded that DCAM should submit a Notice of Intent (NOI) for the Property. The NOI should be submitted to the EPA and MADEP.

The following reasons justify the recommendation of a NOI for the Property.

- Property is active with 21 buildings on site.
- Maintenance activities occur on the Property.
- Three outfalls (Outfalls #1, #2, and #3) exist on the Property that had dry weather flow at the time of the assessment. Discharges from outfalls have potential to enter the impaired waterbody, Nashua River.
- NHESP listed rare species habitat near the Property.

If you have any questions or require any additional information, please do not hesitate to contact me at 781-213-4912.

Very truly yours,

MALCOLM PIRNIE, INC.



Robert S. Winn, P.E.
Associate

cc: W. Di Tullio, Vice President, MPI
Peter Wilson, Associate General Counsel, DCAM
File 4732002-C

G:\P\4732002\Lancaster\Assessment Letter

ATTACHMENT A
Outfall Assessment Sheets

NOI (PHASE II ASSESSMENT) FOR DCAM

PROPERTY Lancaster Complex

CHECKLIST FOR CONDUCTING OUTFALL ASSESSMENTS

1. Date of assessment 2/20/03
2. Outfall I.D. Outfall #1
3. Date of last rain/snow event: 2/17/03 (snow)
4. Photographs CD # Photo #
(Attachment C, Figure 1-1)
5. Assessor's name: Bridget Zwack
6. Weather & Temp Sunny, 35°F
7. Type of outfall
☐ Concrete ☐ Pipe ☐ Grassed ☐ Rock ☒ Other PVC
8. Size of outfall Width Height Diameters 12"
9. Is there visible flow from the pipe? ☒ Yes ☐ No
 If yes, check all that apply. If no, go to number 11.

☐ Colored water (describe)	☐ Oily sheen
☐ Odor (describe- sewage, sulfide, oil, gas, etc.)	☐ Sludge present
☐ Murky	☐ Turbidity (describe- cloudy, opaque, etc.)
☐ Floating objects (describe- floatables, oil sheen, sewage, etc.)	☐ Stains on conveyance (describe- sediment, oily, etc.)
☐ Absence of plant life surrounding conveyance	☐ Notable difference in plant life surrounding conveyance
☐ Scum	☐ Suds ☒ Other: <u>clear, odorless, no turbidity</u>

 e.g., rotten eggs, earthy, chemical, chlorine, soap, putrescence, gasoline, musty, etc.
10. Estimated flow depth 3/4"
11. Is there standing water present? ☐ Yes ☒ No
 If yes, check all that apply. If no, go to number 12.

☐ Colored water (describe)	☐ Oily sheen
☐ Odor (describe- sewage, sulfide, oil, gas, etc.)	☐ Sludge present
☐ Murky	☐ Turbidity (describe- cloudy, opaque, etc.)
☐ Floating objects (describe- floatables, oil sheen, sewage, etc.)	☐ Stains on conveyance (describe- sediment, oily, etc.)
☐ Absence of plant life surrounding conveyance	☐ Notable difference in plant life surrounding conveyance
☐ Suds	☐ Scum ☐ Other: <u> </u>

 e.g., rotten eggs, earthy, chemical, chlorine, soap, putrescence, gasoline, musty, etc.
12. From the assessment locations, can you see any unusual piping or ditches that drain to the storm water conveyance?
☐ Yes ☒ No
13. Is there any overland flow visible from the discharge location? ☐ Yes ☒ No
 Known industrial or commercial uses in drainage area? ☐ Yes ☒ No
 If yes, describe
 Signature: Bridget m Zwack, Malcolm Pirnie

NOI (PHASE II ASSESSMENT) FOR DCAM

PROPERTY Lancaster Complex

CHECKLIST FOR CONDUCTING OUTFALL ASSESSMENTS

1. Date of assessment 2/20/03 2. Outfall I.D. Outfall #2
 3. Date of last rain/snow event: 2/17/03 (snow) 4. Photographs CD # _____ Photo # _____
 (Attachment C, Figures 1-7)
 5. Assessor's name: Bridget Zwack 6. Weather & Temp Sunny, 35°F

7. Type of outfall

☐ Concrete ☐ Pipe ☐ Grassed ☐ Rock ☒ Other PVC

8. Size of outfall Width _____ Height _____ Diameters 8"

9. Is there visible flow from the pipe? ☒ Yes ☐ No

If yes, check all that apply. If no, go to number 11.

- ☐ Colored water (describe) ☐ Oily sheen
☐ Odor (describe- sewage, sulfide, oil, gas, etc.) ☐ Sludge present
☐ Murky ☐ Turbidity (describe- cloudy, opaque, etc.)
☐ Floating objects (describe- floatables, oil sheen, sewage, etc.) ☐ Stains on conveyance (describe- sediment, oily, etc.)
☐ Absence of plant life surrounding conveyance ☐ Notable difference in plant life surrounding conveyance
☐ Scum ☐ Suds ☒ Other: clear, odorless, no turbidity

e.g., rotten eggs, earthy, chemical, chlorine, soap, putrescence, gasoline, musty, etc.

10. Estimated flow depth unable to determine

11. Is there standing water present? ☐ Yes ☒ No

If yes, check all that apply. If no, go to number 12.

- ☐ Colored water (describe) ☐ Oily sheen
☐ Odor (describe- sewage, sulfide, oil, gas, etc.) ☐ Sludge present
☐ Murky ☐ Turbidity (describe- cloudy, opaque, etc.)
☐ Floating objects (describe- floatables, oil sheen, sewage, etc.) ☐ Stains on conveyance (describe- sediment, oily, etc.)
☐ Absence of plant life surrounding conveyance ☐ Notable difference in plant life surrounding conveyance
☐ Suds ☐ Scum ☐ Other: _____

e.g., rotten eggs, earthy, chemical, chlorine, soap, putrescence, gasoline, musty, etc.

12. From the assessment locations, can you see any unusual piping or ditches that drain to the storm water conveyance?

☐ Yes ☒ No

13. Is there any overland flow visible from the discharge location? ☐ Yes ☒ No

Known industrial or commercial uses in drainage area? ☐ Yes ☒ No

If yes, describe _____

Signature: Bridget M. Zwack, Malcolm Pirnie

NOI (PHASE II ASSESSMENT) FOR DCAM

PROPERTY Lancaster Complex

CHECKLIST FOR CONDUCTING OUTFALL ASSESSMENTS

1. Date of assessment 2/20/03 2. Outfall I.D. Outfall #3
 3. Date of last rain/snow event: 2/17/03 (snow) 4. Photographs CD # _____ Photo # _____
 (Attachment C, Figure 1-15)
 5. Assessor's name: Bridget Zwack 6. Weather & Temp Sunny, 35°F

7. Type of outfall

☐ Concrete ☐ Pipe ☐ Grassed ☐ Rock ☒ Other unknown-buried pipe

8. Size of outfall Width _____ Height _____ Diameters unknown-buried pipe

9. Is there visible flow from the pipe? ☒ Yes ☐ No

If yes, check all that apply. If no, go to number 11.

- ☐ Colored water (describe) ☐ Oily sheen
☐ Odor (describe- sewage, sulfide, oil, gas, etc.) ☐ Sludge present
☐ Murky ☐ Turbidity (describe- cloudy, opaque, etc.)
☐ Floating objects (describe- floatables, oil sheen, sewage, etc.) ☐ Stains on conveyance (describe- sediment, oily, etc.)
☐ Absence of plant life surrounding conveyance ☐ Notable difference in plant life surrounding conveyance
☐ Scum ☐ Suds ☒ Other: clear, odorless, no turbidity

e.g., rotten eggs, earthy, chemical, chlorine, soap, putrescence, gasoline, musty, etc.

10. Estimated flow depth unable to determine

11. Is there standing water present? ☐ Yes ☒ No

If yes, check all that apply. If no, go to number 12.

- ☐ Colored water (describe) ☐ Oily sheen
☐ Odor (describe- sewage, sulfide, oil, gas, etc.) ☐ Sludge present
☐ Murky ☐ Turbidity (describe- cloudy, opaque, etc.)
☐ Floating objects (describe- floatables, oil sheen, sewage, etc.) ☐ Stains on conveyance (describe- sediment, oily, etc.)
☐ Absence of plant life surrounding conveyance ☐ Notable difference in plant life surrounding conveyance
☐ Suds ☐ Scum ☐ Other: _____

e.g., rotten eggs, earthy, chemical, chlorine, soap, putrescence, gasoline, musty, etc.

12. From the assessment locations, can you see any unusual piping or ditches that drain to the storm water conveyance?

☐ Yes ☒ No

13. Is there any overland flow visible from the discharge location? ☐ Yes ☒ No

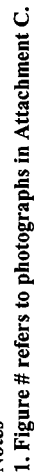
Known industrial or commercial uses in drainage area? ☐ Yes ☒ No

If yes, describe _____

Signature: Bridget Zwack, Malcolm Pirnie

ATTACHMENT B
Site Maps

Figure 1



ATTACHMENT C
Photographs

Figure 1
DCAM Surplus Properties—Lancaster Complex
NPDES Phase II Assessment Report
February 20, 2003



Figure 1-1
Outfall #1.

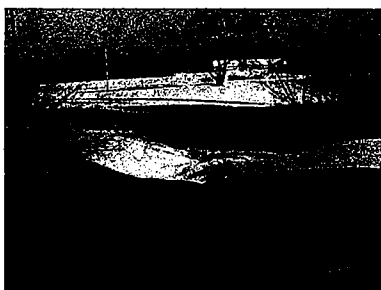


Figure 1-2
Drainage ditch from Outfall #1
toward open field and Route
110.

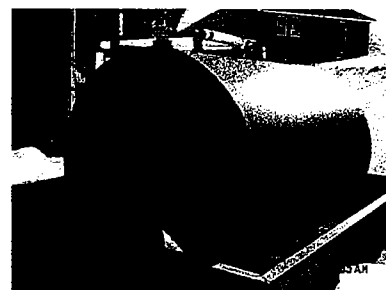


Figure 1-3
500-gallon No. 2 oil AST near
generator.



Figure 1-4
500-gallon No. 2 oil AST and
generator.

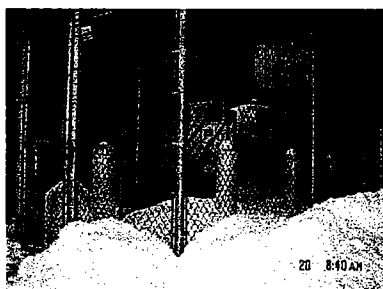


Figure 1-5
1,000-gallon No. 2 oil AST
enclosed by fence and bollards.

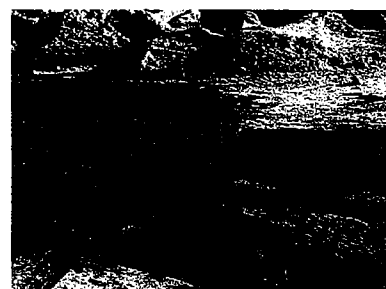


Figure 1-6
20,000-gallon No. 4 heating oil
UST.



Figure 1-7
Outfall #2.



Figure 1-8
Drainage ditch from Outfall #2
toward open field and Route
110.



Figure 1-9
Lawn and wooded areas in the
the northeast area of the site.

Figure 1
DCAM Surplus Properties—Lancaster Complex
NPDES Phase II Assessment Report
February 20, 2003



Figure 1-10
Open field area showing Auto Shop (left) and part of Garage, Barns, Sheds building.



Figure 1-11
1,000-gallon No. 2 heating oil AST enclosed by fence and bollards.



Figure 1-12
1,500-gallon gasoline AST enclosed by fence and bollards



Figure 1-13
Lawn area with School and Richardson Cottage buildings shown.



Figure 1-14
Oliver Carter House.



Figure 1-15
Outfall #3.

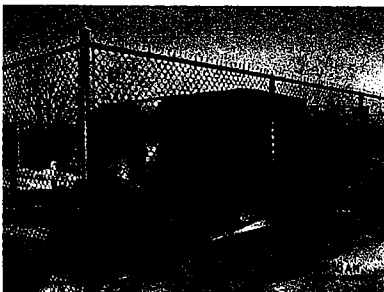


Figure 1-16
Pump station enclosed by fence and bollards.

Figure 2
DCAM Surplus Properties—Lancaster Complex
NPDES Phase II Assessment Report
June 12, 2003



Figure 2-1
Outfall #1.



Figure 2-2
Drainage ditch from Outfall #1
toward open field and Route
110.

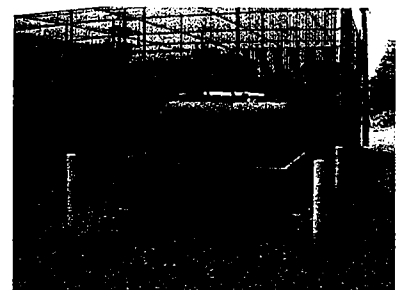


Figure 2-3
500-gallon No. 2 oil AST near
generator.

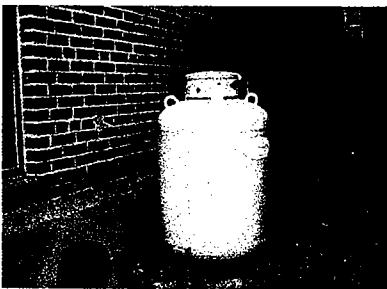


Figure 2-4
Propane tank on west side of
Power Plant.



Figure 2-5
Outfall #2.



Figure 2-6
Outfall #2 Outlet.



Figure 2-7
Propane tank on east side of
Power Plant.



Figure 2-8
Lawn and Campbell Cottage.



Figure 2-9
Wetlands.

Figure 2
DCAM Surplus Properties—Lancaster Complex
NPDES Phase II Assessment Report
June 12, 2003



Figure 2-10
Outfall #3.



Figure 2-11
Outfall #3 Outlet.



Figure 2-12
Parking lot.



Figure 2-13
(3) Propane Tanks next to Auto Shop.



Figure 2-14
Sanders and sand/salt storage in the Garage, Barns, Shed building.

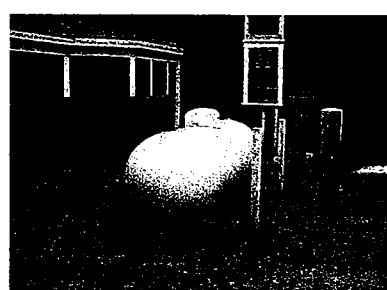


Figure 2-15
Petroleum gas tank.



Figure 2-16
Empty tank.

ATTACHMENT D
NHESP and MHC Letters

May 12, 2003

Natural Heritage Review
Natural Heritage and Endangered Species Program (NHESP)
MA Division of Fisheries and Wildlife
Route 135
Westborough, MA 01581

Re: Division of Capital Asset Management Properties

To Whom It May Concern:

The Division of Capital Asset Management (DCAM) under the Commonwealth of Massachusetts is assessing properties for compliance with the Environmental Protection Agency's (EPA's) Storm Water National Pollutant Discharge Elimination System (NPDES) Phase II requirements. These properties include the following:

- Metropolitan State Hospital (Belmont, Lexington, and Waltham)
- Middlesex County Hospital (Lexington and Waltham)
- Boston State Hospital (Boston)
- Foxborough State Hospital (Foxborough)
- Worcester County Hospital (West Boylston)
- Oakdale Complex (West Boylston)
- Lancaster Complex (Lancaster)
- Rutland Heights Hospital (Rutland)
- J.T. Berry Regional Center (North Reading and Wilmington)
- Danvers State Hospital / Essex Agricultural (Danvers)
- Grafton Complex (Grafton, Shrewsbury, Westborough)
- Lyman School for Boys (Westborough)
- Medfield State Hospital (Medfield)

As part of the Phase II requirements, eligibility criteria for endangered and threatened species and their critical habitats must be met. Coverage under the Phase II permit is only granted if storm water discharges, allowable non-storm water discharges, and discharge related activities do not adversely affect species that are listed as endangered or threatened under the Endangered Species Act (ESA). In order to assist in determining eligibility, Malcolm Pirnie has submitted the enclosed "Rare Species Information Request Form" and USGS topography maps for each property on behalf of DCAM to the NHESP to identify any critical habitats of endangered and threatened species that exist within each property.

**MALCOLM
PIRNIE**

NHESP

May 12, 2003
Page 2

Malcolm Pirnie is requesting a list and location of endangered and threatened species within each property from the NHESP as well as any other applicable information that will assist in determining eligibility criteria under Phase II.

If you have any questions or comments on this letter, please do not hesitate to contact me at (781) 224-4488.

Very truly yours,

MALCOLM PIRNIE, INC.

Bridget M. Franz

~~Bridget M. Franz~~

Engineer

Enclosure

cc: Robert Winn
File 4732002-C

G:\BusDev\DCAM stormwater\species letter

Rare Species Information Request Form

Please complete this form to request site-specific information from The Natural Heritage and Endangered Species Program database (Please submit only one project per request form).

Requestor Information

Name: *Bridget Zwack*

Affiliation: *Malcolm Pirnie, Inc.*

Address: *500 Edgewater Drive, Suite 566*

City: *Wakefield*

State: *MA*

Zip Code: *01880*

Daytime Phone: *(781) 224-4488* Ext.

Project Information

Project or Site Name: *Lancaster Complex*

Town: *Lancaster*

USGS Quad Map:

Name of Landowner or Project Proponent: *Commonwealth of Massachusetts : Division of Capital Asset Management (DCAM)*

Description of Proposed Project: (If necessary attach additional sheet)

(See Attached Cover Letter)

- ☐ *N* Will this project be reviewed as a Notice of Intent by the local Conservation Commission?
- ☐ *Y* Will this project be undergoing review through MEPA?
- ☐ *Y* Have you enclosed the required copy of a USGS topographic map in the scale 1:24,000 or 1:25,000 (not copy reduced) with the site location clearly marked and centered on the copy page? (Copies of Atlas pages are not accepted)

Please **mail** this completed form and topographic map to:
Environmental Review
Natural Heritage and Endangered Species Program
MA Division of Fisheries and Wildlife
Rte. 135
Westborough, MA 01581

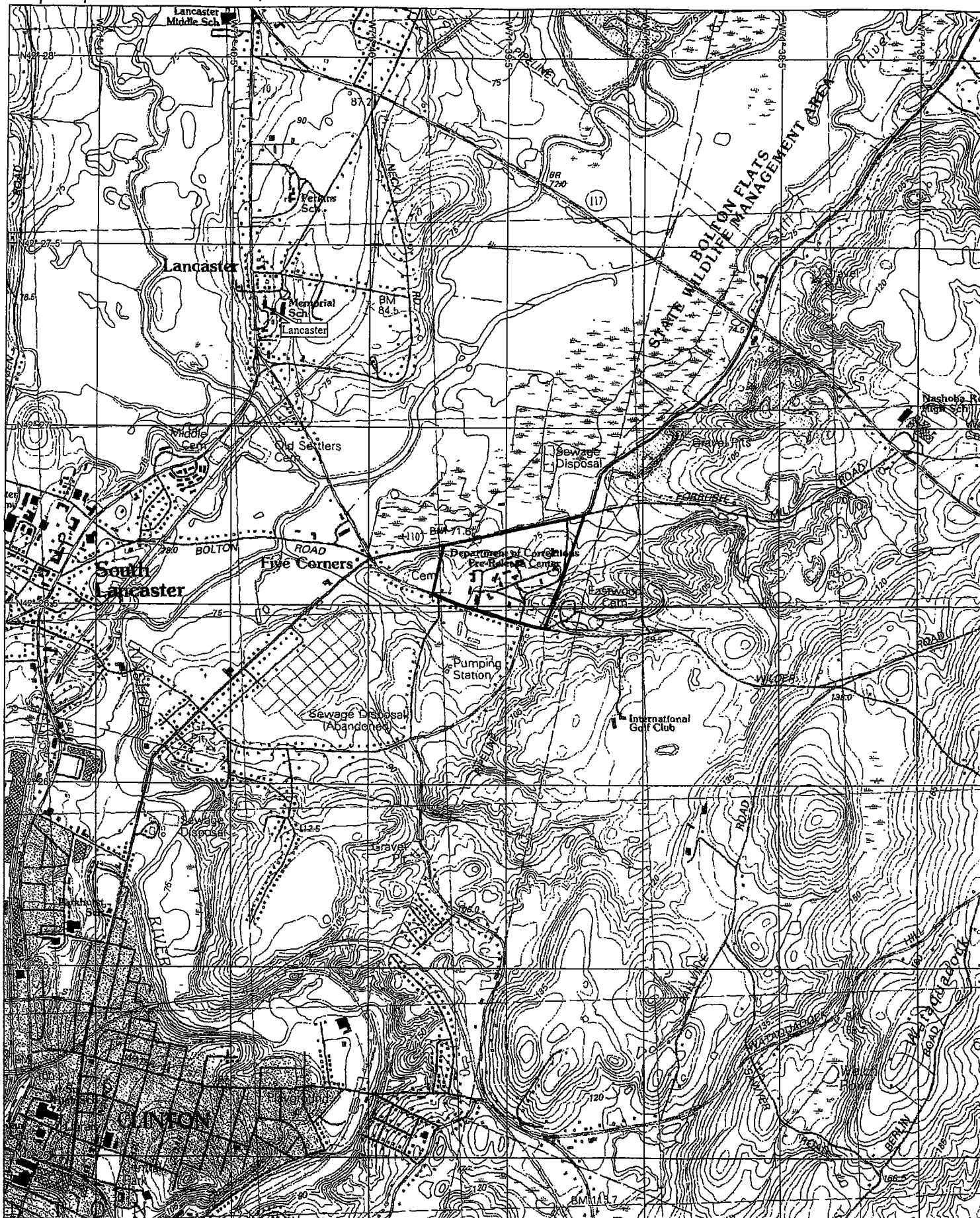
Or **fax** to: (508) 792-7275
Natural Heritage Program
Attn: Environmental Review

*Questions regarding this form should be directed to (508) 792-7270 ext. 154

Persons requesting information should expect a 4 week turnaround time (time varies on amount of requests received per week).
Please do not ask for an expedited review. Requests are processed in the order that they are received.

Property: Lancaster Complex

Approximate Property
Boundary





Commonwealth of Massachusetts

Division of Fisheries & Wildlife

MassWildlife

Wayne F. MacCallum, *Director*

June 11, 2003

Bridget Zwack
Malcolm Pirnie, Inc.
500 Edgewater Drive, Suite 566
Wakefield, MA 01880

Re: Lancaster Complex
Lancaster, MA
NHESP File: 03-12023

Dear Ms. Zwack,

Thank you for contacting the Natural Heritage and Endangered Species Program for information regarding state-protected rare species in the vicinity of the above referenced site. I have reviewed the site and would like to offer the following comments.

Our database indicates that the site abuts Priority/Estimated Habitat PH 384/WH 118, which has been delineated for the following species.

<u>Species</u>	<u>Taxon</u>	<u>Status</u>
Wood Turtle (<i>Clemmys insculpta</i>)	reptile	Special Concern
Blanding's Turtle (<i>Emydoidea blandingii</i>)	reptile	Threatened
Spotted Turtle (<i>Clemmys guttata</i>)	reptile	Special Concern
Eastern Box Turtle (<i>Terrapene carolina</i>)	reptile	Special Concern
Blue-spotted Salamander (<i>Ambystoma laterale</i>)	amphibian	Special Concern
Cat-Tail Sedge (<i>Carex typhina</i>)	plant	Threatened
Climbing Fern (<i>Adiantum fungosa</i>)	plant	Threatened
Ovate Spike-sedge (<i>Eleocharis obtusa</i> var. <i>ovata</i>)	plant	Endangered
Philadelphia Panic-grass (<i>Panicum philadelphicum</i>)	plant	Special Concern
Upland Sandpiper (<i>Bartramia longicauda</i>)	bird	Endangered
American Bittern (<i>Botaurus lentiginosus</i>)	bird	Endangered
Pied-billed Grebe (<i>Podilymbus podiceps</i>)	bird	Endangered
Grasshopper Sparrow (<i>Ammodramus savannarum</i>)	bird	Threatened
Least Bittern (<i>Ixobrychus exilis</i>)	bird	Endangered
Water Shrew (<i>Sorex palustris</i>)	mammal	Special Concern
Triangle Floater (<i>Alasmidonta undulata</i>)	mussel	Special Concern
Pine Barrens Itame (<i>Itame sp. 1</i>)	moth	Special Concern
Pine Barrens Zanclognatha (<i>Zanclognatha martha</i>)	moth	Threatened

www.masswildlife.org

Division of Fisheries and Wildlife

Field Headquarters, One Rabbit Hill Road, Westborough, MA 01581 (508) 792-7270 Fax (508) 792-7275

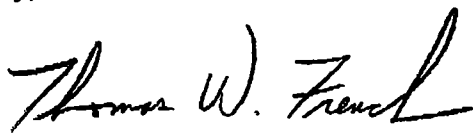
An Agency of the, Department of Fisheries, Wildlife & Environmental Law Enforcement

These species are protected under the Massachusetts Endangered Species Act (M.G.L. c. 131A) and its implementing regulations (321 CMR 10.00) as well as the state's Wetlands Protection Act (M.G.L. c. 131, s. 40) and its implementing regulations (310 CMR 10.00). Fact sheets for these species can be found on our website at www.state.ma.us/dfwele/dfw.

This evaluation is based on the most recent information available in the Natural Heritage database, which is constantly being expanded and updated through ongoing research and inventory. Should your site plans change, or new rare species information become available, this evaluation may be reconsidered.

If you have any questions regarding this review, please contact Christine Vaccaro, Environmental Review Assistant, at ext. 154.

Sincerely,

A handwritten signature in black ink that reads "Thomas W. French". The signature is written in a cursive, flowing style with a large, prominent 'T' and 'F'.

Thomas W. French, Ph.D
Assistant Director

June 9, 2003

Massachusetts Historical Commission
220 Morrissey Boulevard
Boston, MA 02125

Re: Division of Capital Asset Management (DCAM) Phase II Storm Water
Management

To Whom It May Concern:

The Division of Capital Asset Management (DCAM) under the Commonwealth of Massachusetts is assessing properties for compliance with the Environmental Protection Agency's (EPA's) Storm Water National Pollutant Discharge Elimination System (NPDES) Phase II requirements. The Phase II Program is a general permit administered by the EPA and Massachusetts Department of Environmental Protection (MADEP). DCAM properties assessed include the following:

- Metropolitan State Hospital (Belmont, Lexington, and Waltham)
- Middlesex County Hospital (Lexington and Waltham)
- Boston State Hospital (Boston)
- Foxborough State Hospital (Foxborough)
- Worcester County Hospital (West Boylston)
- Oakdale Complex (West Boylston)
- Lancaster Complex (Lancaster)
- Rutland Heights Hospital (Rutland)
- J.T. Berry Regional Center (North Reading and Wilmington)
- Danvers State Hospital / Essex Agricultural (Danvers)
- Grafton Complex (Grafton, Shrewsbury, Westborough)
- Lyman School for Boys (Westborough)
- Medfield State Hospital (Medfield)

As part of the Phase II requirements, the Town must determine if any storm water discharges, allowable non-storm water discharges, or construction of best management practices (BMPs) to control discharges have the potential to affect a property that is listed or eligible for listing on the National Register of Historic Places and by the Massachusetts Historical Commission (MHC).

Malcolm Pirnie, on behalf of DCAM, is requesting an evaluation of each property by the MHC to determine if storm water discharges from each property will affect a historic place. In addition, Malcolm Pirnie is also requesting a list and location of historic sites that may be near each property as well as a verification that the information provided on

the attached Project Notification Form is correct to complete the Notice of Intent (NOI) for the Phase II permit.

Included are a Project Notification Form (Form) and USGS quadrangle map for each property as requested by the MHC for project review. A summary of the information provided on the Forms includes the following:

- Demolition, rehabilitation, and new construction of buildings are not planned at each property.
- Most of the properties are historic sites as designated under the NRDIS (National Register District), NRMPS (National Register of Multiple Property Submission), and LHD (Local Historic District)
- Acreages of land cover are approximate for each property.

In addition, outfall locus maps are included for those properties that have known outfalls based on available mapping and assessments conducted.

If you have any questions or comments on this letter, please do not hesitate to contact me at (781) 224-4488.

Very truly yours,

MALCOLM PIRNIE, INC.



Bridget Zwack
Engineer

Enclosure

cc: Robert Winn
File 4732002-C

G:\BusDev\DCAM stormwater\MHC letter

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A

MASSACHUSETTS HISTORICAL COMMISSION
220 MORRISSEY BOULEVARD
BOSTON, MASS. 02125
617-727-8470, FAX: 617-727-5128

PROJECT NOTIFICATION FORM

Project Name: DCAM Phase II Storm Water Management
Location / Address: Lancaster Complex, Old Common Road, Lancaster, MA 01523
City / Town: Lancaster

Project Proponent

Name: Malcolm Pirnie
Address: 500 Edgewater Drive, Suite 566
City/Town/Zip/Telephone: Wakefield, MA 01880 (781) 224-4488

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

Agency Name

EPA & MADEP

Type of License or funding (specify)

NPDES General Permit for Storm Water
Discharges from Small MSTs

Project Description (narrative):

(See Attached Letter)

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

NO

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.

ND

Does the project include new construction? If so, describe (attach plans and elevations if necessary).

ND

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A (continued)

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify. YES

Lancaster Industrial School for Girls, as part of the Lancaster Complex, is listed in the MHC's "Historic State Register of Historic Places, 2002." Designated as historic under NEDIS
What is the total acreage of the project area? 158 Acres

Woodland 8 acres
Wetland _____ acres
Floodplain _____ acres
Open space 87 acres
Developed 63 acres

Productive Resources:
Agriculture _____ acres
Forestry _____ acres
Mining/Extraction _____ acres
Total Project Acreage 158 acres

What is the acreage of the proposed new construction? 0 acres

What is the present land use of the project area?

Lancaster Complex includes inactive buildings, offices, residential homes, and maintenance facilities.

Please attach a copy of the section of the USGS quadrangle map which clearly marks the project location.

This Project Notification Form has been submitted to the MHC in compliance with 950 CMR 71.00.

Signature of Person submitting this form: Bridget M. Zwack Date: 6/9/03

Name: Bridget M. Zwack

Address: 500 Edgewater Drive, Suite 516

City/Town/Zip: Wakfield, MA 01880

Telephone: (781) 224-4488

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.

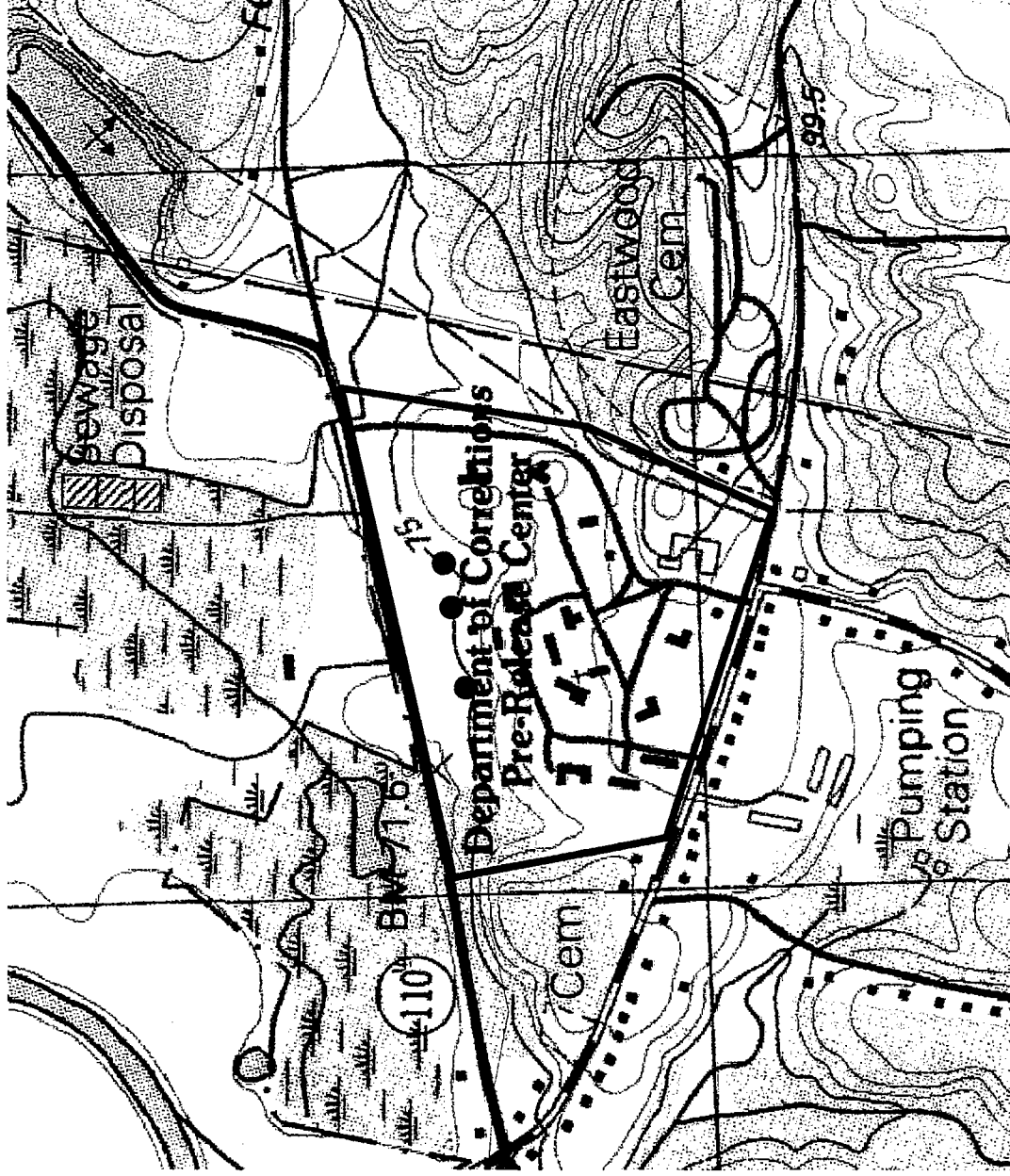
Property: Lancaster Complex

Approximate Property
Boundary ———



DCAM - Lancaster Complex

Outfall Locus Map



● Outfall

--- Property Boundary

