GOVE ENVIRONMENTAL SERVICES, INC.
Wetlands and Soil Mapping

2008 MITIGATION MONITORING REPORT

for the

THOMASTON, ME COMPENSATION AREA

ME DEP L-21078-26-A-N/L-21078-TG-B-N
USACE 200202265

THE HOME DEPOT
270 CAMDEN STREET
ROCKLAND, MAINE

December 2008

Prepared for

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FINAL 2008 WETLAND MITIGATION MONITORING REPORT
THOMASTON, ME COMPENSATION AREA
ME DEP PERMIT L–21078-26-A-N/L-21078-TG-B-N
USACE PERMIT 200202265
THE HOME DEPOT
270 CAMDEN STREET
ROCKLAND, MAINE

INTRODUCTION

Gove Environmental Services, Inc. (GES) submits this fourth report to monitor wetland compensation areas ("Compensation Areas") for The Home Depot on Camden Street in Rockland, Maine. The mitigation area for this project is located offsite, along Route 1 in Thomaston, behind the existing Flag Ship Cinema near the Rockland/Thomaston municipal line.

This report is required under the conditions of the Maine Department of Environmental Protection (DEP) Permit L–21078-26-A-N/L-21078-TG-B-N, among which are stipulations that mitigation monitoring will continue annually to document the overall condition of the Compensation Areas during each growing season for five years following their establishment, which occurred in November 2003. Mitigation monitoring reports were submitted for the first three consecutive years, with a final monitoring report to be submitted in this year. No report was required for 2007.

This report includes a descriptive analysis of wetland characteristics, including wetland plant community, hydrology, soils and overall wetland function of the three Compensation Areas labeled B, C, and D. Compensation Areas A and E are preservation areas and have not been altered. The intent of this report is to give an overview of the wetland enhancement and restoration integrity; therefore, only Areas B, C and D will be discussed in detail. The preservation areas A and E will not be reported on.

Included in this report is a sketch identifying the Compensation Areas, a photolog depicting the compensation areas during July of 2008, and data forms for the data plots established at the beginning of the monitoring.

In addition, the report notes any remedial actions recommended for the Compensation Areas.

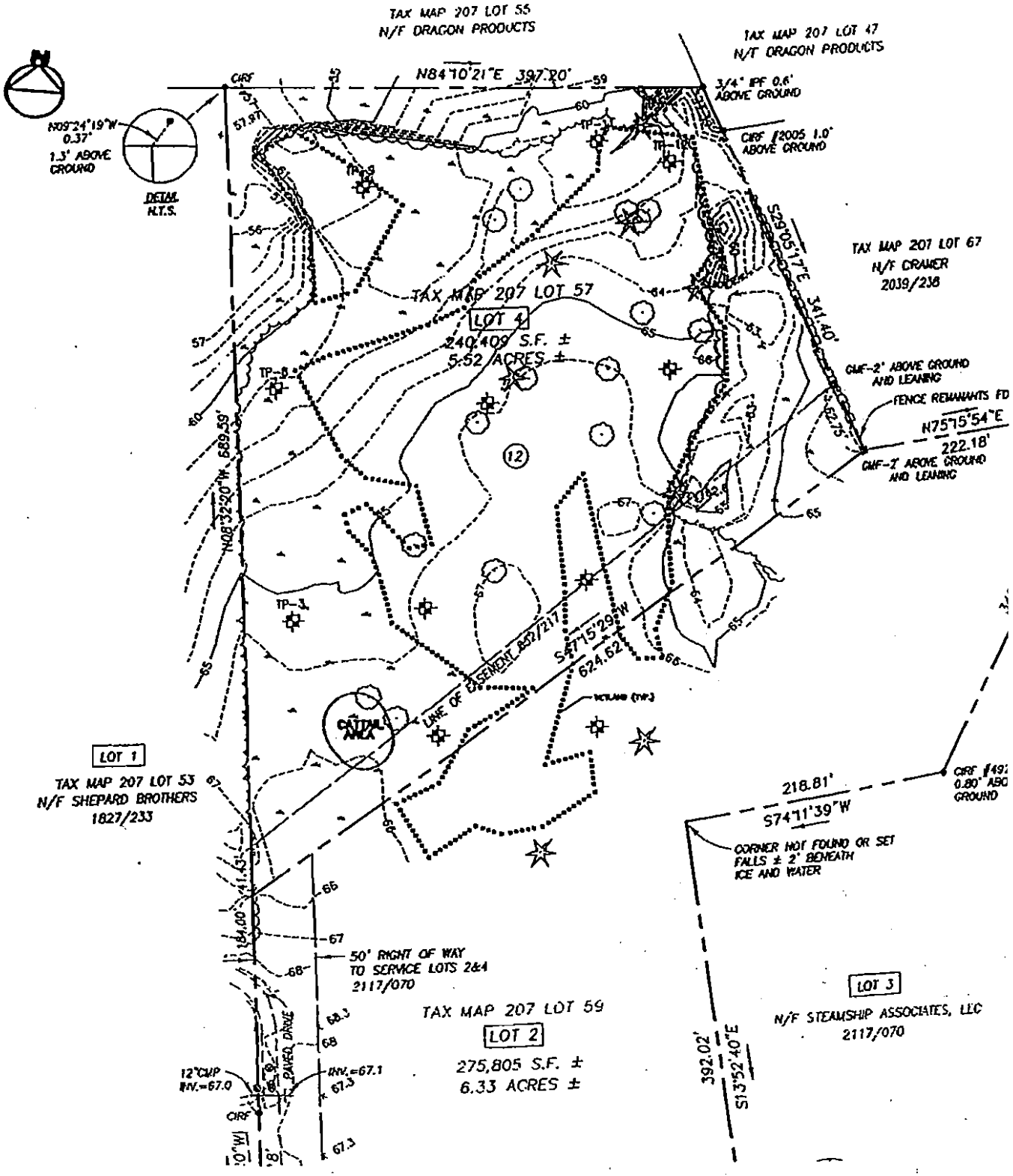
COMPENSATION AREA OVERVIEW

The table below identifies each Compensation Area, its type and current status. The narrative that follows describes the areas and their status in depth.

Table 1. Wetland Compensation Areas.

COMPENSATION AREA	AREA (SF)	COMMENTS	
A—Preservation	464,349 (10.66 acres)	Located on the Home Depot site in Rockland (on-site)	Currently forested, consisting of 7.84 acres of upland and 2.79 acres of wetland. No reporting.
B-1—Restoration	31,970	South side of property adjacent to buffer (off-site)	Excavate old fill, grade, and place loam as needed, rough grade to mimic pit and mound micro-topography.
B-2—Restoration	31,222	Northwest corner of property (off-site)	Excavate fill to original grade, stumps and other woody debris in fill can be used in mitigation area.
C—Restoration/Enhancement	41,556	Western side of property (off-site)	Identify areas where micro-topography needs to be enhanced through excavation and areas where plantings only need occur.
D—Buffer Plantings	18,570	Southern end of property (off-site)	Coniferous plantings to screen site from existing and potential commercial development.
E—Preservation	117,091	Remainder of property outside of other identified areas (off-site)	Currently forested. The entire offsite mitigation area will be put into preservation: 5.82 acres. No reporting.

PERMITTED MITIGATION PLANS



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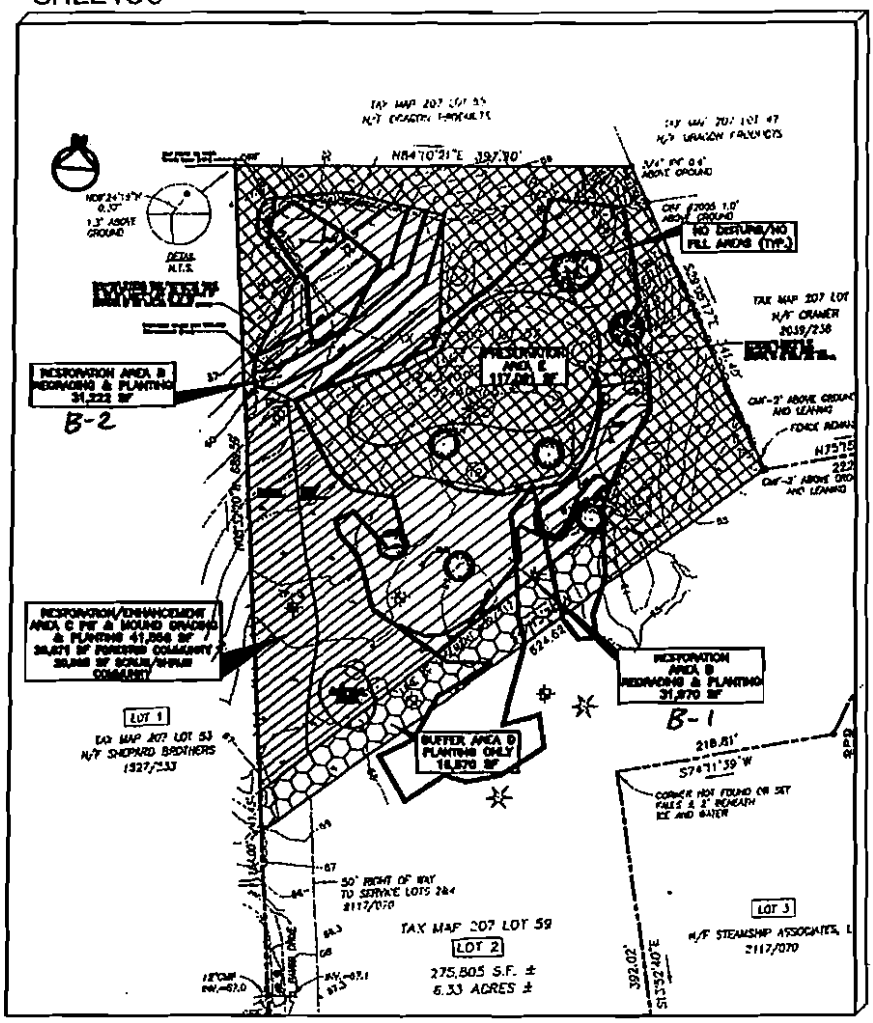
Drawing Name: EXISTING OFFSITE MITIGATION

Project: THE HOME DEPOT
ROCKLAND, MAINE

Figure 3

SHEET3C



SHEET2C

WETLAND COMPENSATION LEGEND:

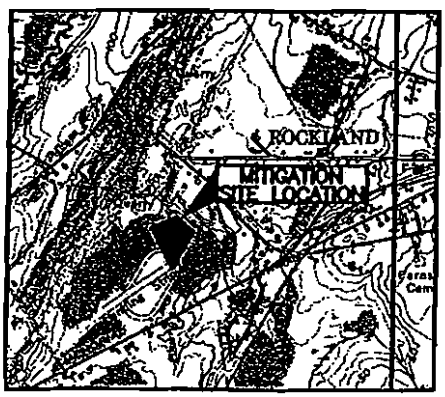
RESTORATION AREA (AREA B)	REFER TO EXHIBIT 14 OF THE NRPA APPLICATION AND SHEET C-21 FOR INFORMATION REGARDING GRADING AND PLANTING OF RESTORATION AREA. THE RESTORATION AREA WILL BE INCLUDED WITHIN THE CONSERVATION EASEMENT.
ENHANCEMENT AREA (AREA C)	REFER TO EXHIBIT 14 OF THE NRPA APPLICATION FOR INFORMATION REGARDING GRADING AND PLANTING OF ENHANCEMENT AREA. THE ENHANCEMENT AREA WILL BE INCLUDED WITHIN THE CONSERVATION EASEMENT.
BUFFER ENHANCEMENT AREA (AREA D)	REFER TO EXHIBIT 14 OF THE NRPA APPLICATION AND SHEET C-21 FOR INFORMATION REGARDING GRADING AND PLANTING OF BUFFER AREA. THE BUFFER AREA WILL BE INCLUDED WITHIN THE CONSERVATION EASEMENT.
PRESERVATION AREA (AREA E)	PRESERVATION AREA INCLUDES THE PORTION OF THE SITE, WHICH IS NOT RESTORATION OR ENHANCEMENT AREA. NO FUTURE CONSTRUCTION SHALL OCCUR IN PRESERVATION AREA.

TEST PIT

NOTE: SEE ATTACHMENT B OF NRPA EXHIBIT 14 FOR INFORMATION REGARDING EXISTING TEST PITS.

NOTES:

1. TOPOGRAPHIC AND BOUNDARY DATA ARE BASED UPON SURVEY COMPLETED BY OWEN HASKELL, INC. OF PORTLAND, MAINE IN MAY 2003.
2. PLANTINGS PROPOSED IN WETLAND COMPENSATION AREA (RESTORATION AND/OR ENHANCEMENT) SHALL BE MAINTAINED BY THE PROPERTY OWNER AND ANY PROPOSED ALTERATIONS OF THE AREA SHALL BE APPROVED IN WRITING BY THE MDEP AND ACOE PRIOR TO INITIATION.
3. ANY ALTERATION TO THE WETLAND COMPENSATION AREA (RESTORATION, ENHANCEMENT, AND/OR PRESERVATION) SHALL BE APPROVED IN WRITING BY THE MDEP AND ACOE PRIOR TO INITIATION.
4. PROVIDE SILTATION FENCE OR COMPOST WOOD/WASTE BERMS ON THE DOWNHILL SIDE OF ANY EXCAVATION ACTIVITIES MINIMUM SILT FENCE/BERMS DEPICTED ON PLAN. EROSION CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF 1 FULL GROWING SEASON.



LOCATION MAP

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File Name: 210-restoration	

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Drawing Name: PROPSED OFFSITE MITIGATION – INDEX

Project: THE HOME DEPOT
ROCKLAND, MAINE

Figure No. 1C

WETLAND COMPENSATION LEGEND:

RESTORATION AREA (AREA B)	REFER TO EXHIBIT 14 OF THE NRPA APPLICATION AND SHEET C-21 FOR INFORMATION REGARDING GRADING AND PLANTING OF RESTORATION AREA. THE RESTORATION AREA WILL BE INCLUDED WITHIN THE CONSERVATION EASEMENT.
ENHANCEMENT AREA (AREA C)	REFER TO EXHIBIT 14 OF THE NRPA APPLICATION FOR INFORMATION REGARDING GRADING AND PLANTING OF ENHANCEMENT AREA. THE ENHANCEMENT AREA WILL BE INCLUDED WITHIN THE CONSERVATION EASEMENT.
BUFFER ENHANCEMENT AREA (AREA D)	REFER TO EXHIBIT 14 OF THE NRPA APPLICATION AND SHEET C-21 FOR INFORMATION REGARDING GRADING AND PLANTING OF BUFFER AREA. THE BUFFER AREA WILL BE INCLUDED WITHIN THE CONSERVATION EASEMENT.
PRESERVATION AREA (AREA E)	PRESERVATION AREA INCLUDES THE PORTION OF THE SITE, WHICH IS NOT RESTORATION OR ENHANCEMENT AREA. NO FUTURE CONSTRUCTION SHALL OCCUR IN PRESERVATION AREA.

TEST PIT

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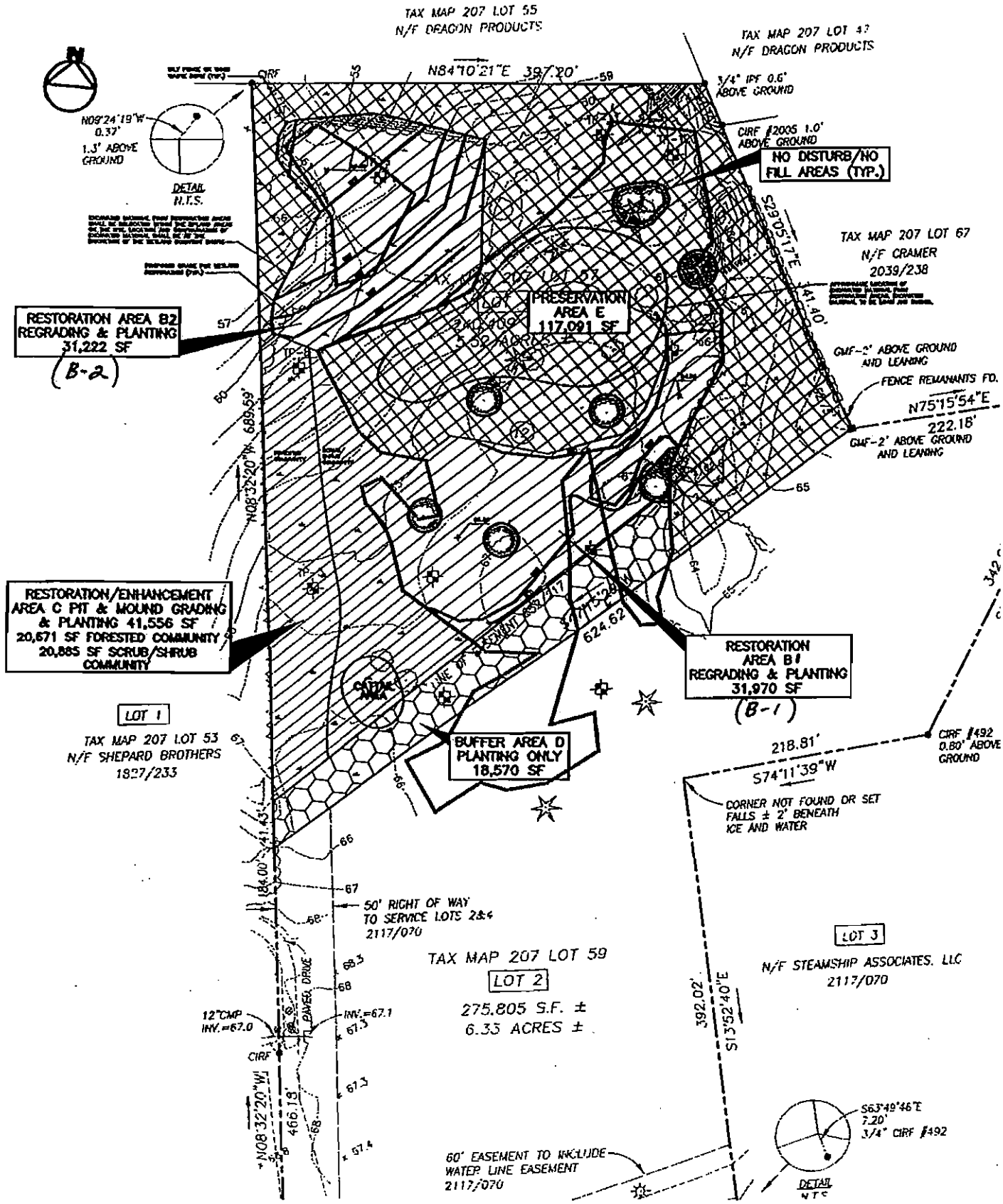
Drawing Name: PROPOSED OFFSITE MITIGATION

Project: THE HOME DEPOT
ROCKLAND, MAINE

Figure No. 2C



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Drawing Name: PROPOSED OFFSITE MITIGATION

Project: THE HOME DEPOT
ROCKLAND, MAINE

Figure No. 3C

1973 USGS LOCUS MAP
Scale 1:24,000

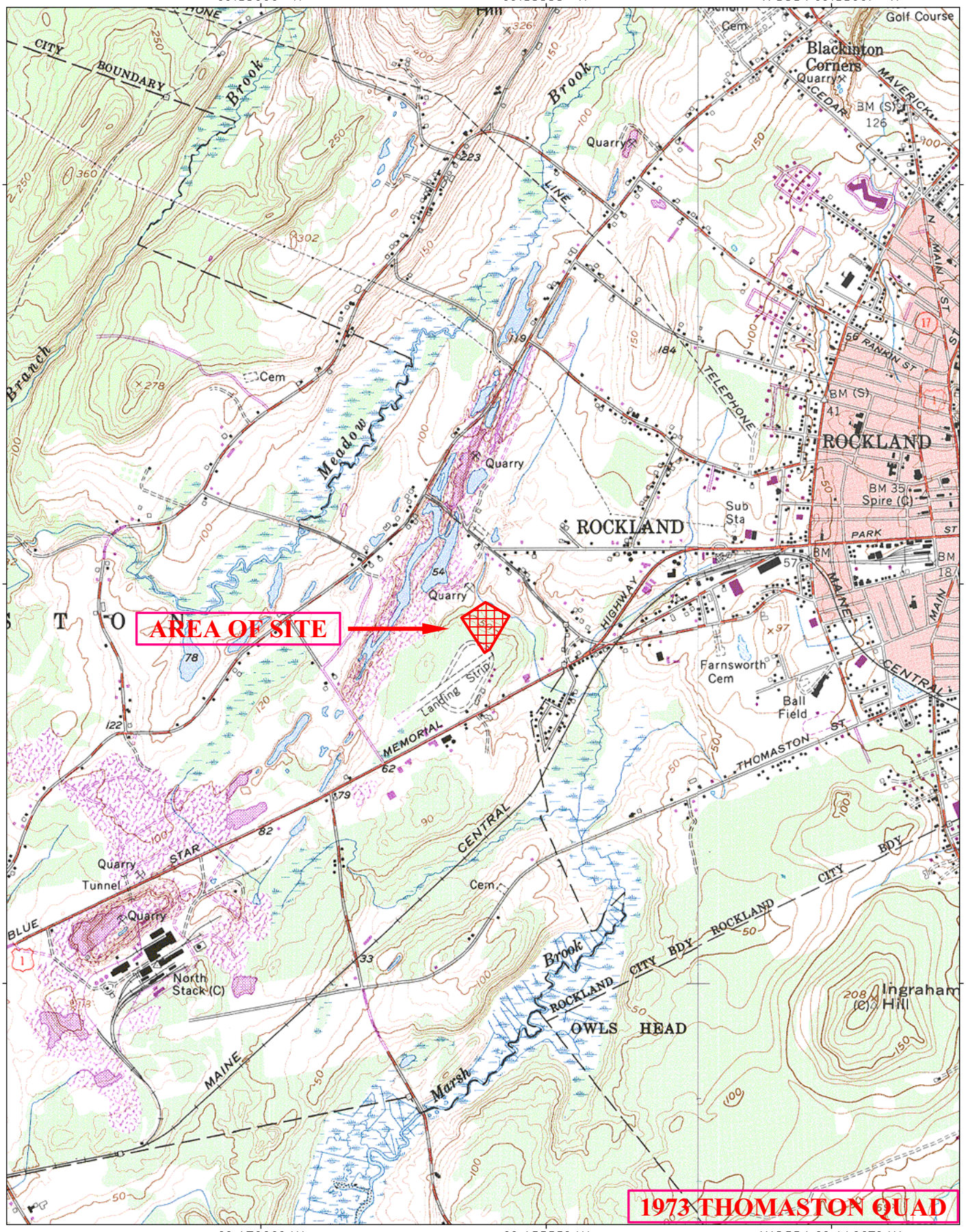
TOPO! map printed on 12/05/03 from "MESHORE.tpo" and "Untitled.tpg"

69.15000° W 69.13333° W WGS84 69.11667° W

44.11667° N

44.10000° N

44.08333° N



69.15000° W 69.13333° W WGS84 69.11667° W

MN 17½° TN

0 1/2 1 MILE

0 1000 FEET 0 500 m 1000 m

Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

PHOTOLOG
With Data Plot Locations

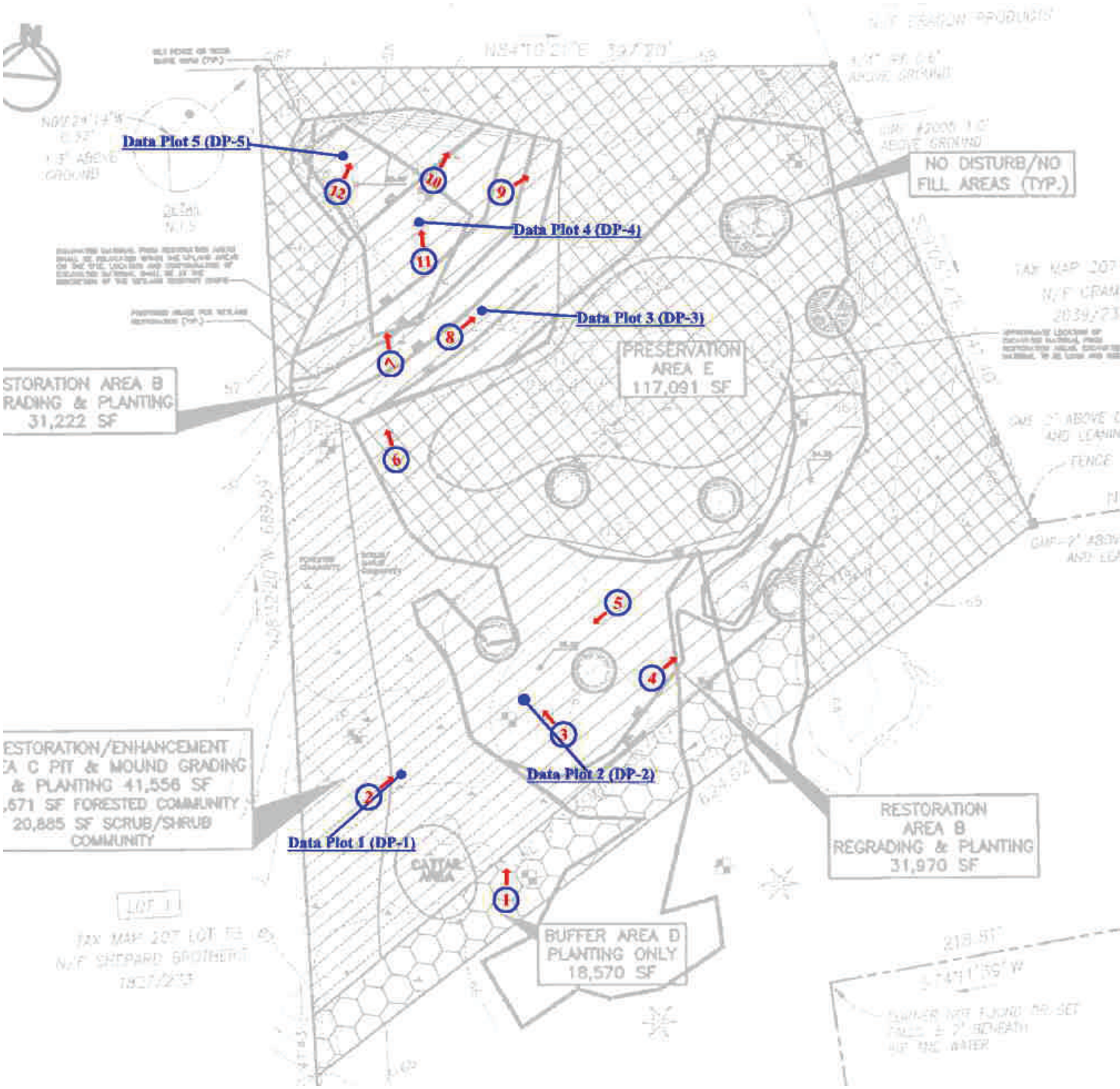

Data Plot 5 (DP-5)
Data Plot 4 (DP-4)
Data Plot 3 (DP-3)
Data Plot 2 (DP-2)
Data Plot 1 (DP-1)
NO DISTURB/NO FILL AREAS (TYP.)
PRESERVATION AREA E 117,091 SF
STORATION AREA B RADING & PLANTING 31,222 SF
ESTORATION/ENHANCEMENT A C PIT & MOUND GRADING & PLANTING 41,556 SF ,671 SF FORESTED COMMUNITY 20,885 SF SCRUB/SHRUB COMMUNITY
RESTORATION AREA B REGRADING & PLANTING 31,970 SF
BUFFER AREA D PLANTING ONLY 18,570 SF
CATTAIL AREA
FENCE

Photo 1—southeast edge of the mitigation area, Area C is to the left of the tree

Photo 2—data plot DP-1

Photo 3—data plot DP-2, the stake is no longer visible

Photo 4—looking east across Restoration Area B1 within the southern portion of the mitigation area

Photo 5—looking west across restoration Area B1 and into Area C within the southern portion of the mitigation area

Photo 6—looking north across restoration Area B2 within the northern portion of the mitigation area

Photo 7—closer view of Area B2 encompassing DP-4 &DP-5, DP-3 is just out of the frame to the right

Photo 8—data plot DP-3, purple loosestrife is an issue at this location

Photo 9—looking toward the northeast corner of area B2

Photo 10—looking toward the northern edge of area B2

Photo 11—looking toward the area of data plot DP-4

Photo 12—close-up of data plot DP-5, growth is very vigorous in this area, the stake is not viable

CURRENT CONDITIONS

Restoration Area B

Restoration Area B, the largest of the restoration areas, is composed of two separate areas: Restoration Area B-1 (located in the southern portion of the property) and Restoration Area B-2 (located in the northern portion of the property). Combined, this area totals 63,192 square feet. The restoration of this area involved the excavation of old fill, rough grading of the soils, hydroseeding and wetland shrub plantings. Four Data Plots (DP-2, DP-3, DP-4 & DP-5) have been established in this area. Please see the accompanying USACE Data Plot Forms attached as an appendix at the back of this report for specific details of the wetland criteria.

Area B–1

A single data plot, identified as DP–2, was established in this area during June 2004 with a labeled wooden stake (please see the accompanying mitigation plan for exact Data Plot locations).

The general condition of this area is good with a dominant portion of the herbaceous cover consisting of a combination of wetland grasses, sedges and rushes and some limited upland herbaceous species. A small amount of purple loosestrife is present within this area but has been controlled by previous intervention. The hydrophytic vegetation criterion is met within this wetland data plot.

Evidence of hydrology consists of oxidized rhizoshperes, and sediment deposits within the micro topographic depressions created during grading. Wetland hydrology criterion is met within this wetland data plot.

Although soils do not meet the hydric soils criterion according to the *Field Indicators for Identifying Hydric Soils in New England*[1], they do exhibit good hydric soil development and most likely need mote time to develop.

Remedial Action Required within Enhancement Area B-1

No remedial actions are therefore recommended in this area.

Area B–2

Three data plots identified as DP–3, DP–4 and DP–5 were established during June 2004 within this restoration area. This area, particularly in the vicinity of DP-4 and DP-5, has experienced significant growth since it was established and is now nearly unrecognizable from the early photos. The nearly head high herbaceous growth of almost all hydrophytes is accompanied by some important volunteer shrub species such as speckled alder. The vigorous growth in this area appears to have out-competed the wild mustard (*Brassica kaber*) identified here in 2005. The

[1] New England Hydric Soils Technical Committee. 2004. 3rd ed., *Field Indicators for Identifying Hydric Soils in New England*. Lowell, MA: New England Interstate Water Pollution Control Commission.

area in the vicinity of DP-3, however, has not developed as well and purple loosestrife is now the dominant vegetation in this area. It should be noted that the purple loosestrife is concentrated in a shallow depression created during grading which seems to support a slightly wetter hydrology than the surrounding area. This may have helped limit its spread into the surrounding areas but corrective action is recommended nonetheless to help contain it.

Evidence of hydrology in these data plots included saturation at the surface and shallow inundation.

Soils were completely disturbed in this area during re-grading and do not yet meet do not meet hydric soil criterion. They do exhibit good development of hydric characteristics and most likely need more time to develop.

Remedial Action Required within Enhancement Area B-2

Although the purple loosestrife is dominant in DP-3 it is only densely concentrated in this area an application of herbicide is recommended in an attempt to prevent its spread as much as possible.

Enhancement Area C

This restoration area is the second largest area, consisting of 41,556 square feet. This area received minor grading and creation of micro topographic depressions. One data plot (DP–1) was established within this area using a labeled wooden stake. This area is well vegetated with a variety of planted and volunteer species that meet the wetland vegetation criteria. A small amount of purple loosestrife is present within this area but has been controlled by previous intervention.

No free water was observed during the site visit but the micro topography shows signs of intermittent inundation and does meet the wetland hydrology

Hydric soils criterion are met under X.II. of the *Field Indicators for Identifying Hydric Soils in New England.*

Remedial Action Required within Enhancement Area C

No remedial actions are therefore recommended in this area.

Buffer Area D

The buffer area is generally thriving and it is difficult to identify planted shrubs in this area amongst the volunteer growth. The buffer area borders a maintained field adjacent to a cinema not controlled by the Home Depot. It appears that the mowing of this field by others has begun to encroach on the Buffer Area as several brush-hogged trees were identified a few feet into the mowed. Due to the lack of any identifiable boundary between the mitigation area and the adjacent property it is difficult to gauge the extent of the encroachment although it does not yet

appear severe.

Remedial Action Required within Enhancement Area D

It is recommended that the property line be established via survey and conservation markers be installed to define the area.

Appendix I
USACE Data Plot Monitoring Forms

PROJECT TITLE: Home Depot Rockland TRANSECT: Wetland (for monitoring, no upland) PLOT: DP#1

DELINEATOR(S): BJQ DATE: 7/24/2008

VEGETATION	Stratum and Species (Dominants Only)	Dominance Ratio	Percent Dominance	NWI STATUS
⇨				
	Scirpus atrovirens	2/28	7%	OBL
	Juncus bufonius	5/28	18%	FACW*
	Trifolium agrarium	*5/28*	18%	*NI*
	Lythrum salicaria	1/28	4%	FACW+
	Eleocharis obtuse	5/28	18%	OBL*
	Festuca rubra	10/28	36%	FACU
	Salix Nigra	25/53	47%	FACW+*
	Elaeagnus angustifolia	20/53	38%	FACU
	Abies balsamea	2/53	4%	FAC
	Picea rubens	1/53	2%	FACU
	Viburnum lentago	5/53	9%	FAC

⇨

OBL 1 FACW 2 FAC 0 Other Hydrophytes FAC- 0 FACU 2 UPL 0

Hydrophytes SUBTOTAL: 3 NON-Hydrophytes SUBTOTAL: 2

PERCENT HYDROPHYTES: 60%

HYDROLOGY

RECORDED DATA

Stream, lake or tidal gage Identification:
Aerial Photograph Identification:
Other Identification:

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water:
Depth to Saturation:
Description of Altered Hydrology:

Inundated Saturated upper Water Marks Drift Lines ✓Sediment deposits Drainage Patterns

⇨ OTHER (Explain): oxidized rhizospheres

SOIL

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES Color, Abundance, Size & Contrast	USDA Texture
⇨				
0–4	A	5Y5/3	2% 10YR 4/6	Silty Clay Loam
4–13	B	5Y4/3	10% 2.5Y 4/4	Silty Clay Loam
13+	C	5Y5/2	40% 2.5Y 4/4`	Silty Clay Loam

HYDRIC SOIL INDICATOR(S)

REFERENCE:
Field Indicators for Identifying Hydric Soils in New England, Version 3. NEIWPCC NE Hydric Soils Technical Committee (2004).

CONCLUSIONS

	Yes	No
Greater than 50% Hydrophytes?	X	
Hydric Soils Criterion Met?	(see remarks)	
Wetland Hydrology Met?	X	
IS THIS DATAPOINT A WETLAND?	X	

REMARKS: Wetland mitigation Area with disturbed soils. Soil DOES exhibit good hydric soil development.

PROJECT TITLE: Home Depot Rockland TRANSECT: Wetland (for monitoring, no upland) PLOT: DP#2

DELINEATOR(S): BJQ DATE: 7/24/2008

VEGETATION	Stratum and Species (Dominants Only)	Dominance Ratio	Percent Dominance	NWI STATUS
⇨				
	Equisetum fluviatile	10/41	24	OBL*
	Carex tribuloides	10/41	24	FACW+*
	Trifolium pratense	5/41	12	FACU-
	Juncus bufonius	5/41	12	FACW*
	Juncus effuses	5/41	12	FACW*
	Scirpus atrovirens	2/41	5	OBL
	Lythrum salicaria	2/41	5	FACW+
	Daucus carota	2/41	5	NI
	Abies balsama	15/30	50	FACW+*
	Clethera alnifolia	10/30	33	FAC+*
	Viburnum lentago	5/30	17	FAC

⇨

OBL 1 FACW 4 FAC 1 Other Hydrophytes FAC- 0 FACU 1 UPL 0

Hydrophytes SUBTOTAL: 6 NON-Hydrophytes SUBTOTAL: 1

PERCENT HYDROPHYTES: 86%

HYDROLOGY

RECORDED DATA

Stream, lake or tidal gage Identification:
Aerial Photograph Identification:
Other Identification:

✓ NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: none observed
Depth to Saturation: surface
Description of Altered Hydrology: area re-graded as part of mitigation area

⇨ Inundated ✓Saturated upper 12" Water Marks Drift Lines Sediment deposits Drainage Patterns
⇨ OTHER (Explain): oxidized rhizospheres

SOIL

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES Color, Abundance, Size & Contrast	USDA Texture
⇨				
0-5	A	10YR 3/1		fine sandy loam
5-12	B	2.5Y 5/4	2.5Y 6/5 2.5Y 6/3	fine sandy loam, fine, common roots
12”+	C	5Y 5/3	5Y 6/2 10 YR 6/6	fine sandy loam

HYDRIC SOIL INDICATOR(S)

REFERENCE:
Field Indicators for Identifying Hydric Soils in New England, Version 3. NEIWPCC NE Hydric Soils Technical Committee (2004).

CONCLUSIONS

	Yes	No
Greater than 50% Hydrophytes?	X	
Hydric Soils Criterion Met?	(see remarks)	
Wetland Hydrology Met?	X	
IS THIS DATAPOINT A WETLAND?	X	

REMARKS: Wetland mitigation Area with disturbed soils. Soil DOES exhibit good hydric soil development.

PROJECT TITLE: Home Depot Rockland TRANSECT: Wetland (for monitoring, no upland) PLOT: DP#3

DELINEATOR(S): BJQ DATE: 7/24/2008

VEGETATION	Stratum and Species (Dominants Only)	Dominance Ratio	Percent Dominance	NWI STATUS
⇨				
	Lythrum salicaria	35/87	40	FACW+*
	Juncus effusus	20/87	23	FACW+*
	Typha latifolia	15/87	17	OBL
	Juncus bufonius	10/87	11	FACW
	Eleocharis sp.	5/87	6	OBL
	Polygonum punctatum	1/87	1	OBL
	Alisma plantogo-aquatica	1/87	1	OBL

⇨

OBL 4 FACW 2 FAC 0 Other Hydrophytes FAC- 0 FACU 0 UPL 0

Hydrophytes SUBTOTAL: 6 NON-Hydrophytes SUBTOTAL: 0

PERCENT HYDROPHYTES: 100%

HYDROLOGY

RECORDED DATA

Stream, lake or tidal gage Identification:
Aerial Photograph Identification:
Other Identification:

✓ NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: 3”
Depth to Saturation:
Description of Altered Hydrology: part of re-graded mitigation area

⇨ ✓ Inundated Saturated upper 12” ✓ Water Marks Drift Lines Sediment deposits Drainage Patterns

⇨ OTHER (Explain):

SOIL

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES Color, Abundance, Size & Contrast	USDA Texture
⇨				
0-3	A	5Y 2.5/2		fine sandy loam
3-5	B	5Y 3/1	10 YR 5/4 common distinct	fine sandy loam
5-10	C	5Y 4/2		fine sandy loam

HYDRIC SOIL INDICATOR(S)

REFERENCE:
Field Indicators for Identifying Hydric Soils in New England, Version 3. NEIWPCC NE Hydric Soils Technical Committee (2004).

CONCLUSIONS

	Yes	No
Greater than 50% Hydrophytes?	X	
Hydric Soils Criterion Met?	(see remarks)	
Wetland Hydrology Met?	X	
IS THIS DATAPOINT A WETLAND?	X	

REMARKS: Wetland mitigation Area with disturbed soils. Soil DOES exhibit good hydric soil development.

PROJECT TITLE: Home Depot Rockland TRANSECT: Wetland (for monitoring, no upland) PLOT: DP#4

DELINEATOR(S): BJQ DATE: 7/24/2008

VEGETATION	Stratum and Species (Dominants Only)	Dominance Ratio	Percent Dominance	NWI STATUS
⇨				
	Solidago gigantica.	25/59	42	FACW*
	Scirpus atrovirons	15/59	25	OBL*
	Scirpus cyperinus	10/59	17	FACW+
	Eupatoriadelphus fistulosus	5/59	8	FACW
	Lythrum salicaria	2/59	3	FACW+
	Eupatorium perfoliatum	2/59	3	FACW+
	Abies balsamea	10/20	50	FAC*
	Alnus rugosa	5/20	25	FACW+*
	Acer rubrum	5/20	25	FAC*

⇨

OBL 1 FACW 2 FAC 2 Other Hydrophytes FAC- 0 FACU 0 UPL 0

Hydrophytes SUBTOTAL: 5 NON-Hydrophytes SUBTOTAL: 0

PERCENT HYDROPHYTES: 100%

HYDROLOGY

RECORDED DATA

Stream, lake or tidal gage Identification:
Aerial Photograph Identification:
Other Identification:

✓ NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water:
Depth to Saturation: surface
Description of Altered Hydrology: Part of re-graded mitigation area

⇨ Inundated ✓ Saturated upper 12" Water Marks Drift Lines Sediment deposits Drainage Patterns

⇨ OTHER (Explain):

SOIL

DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES Color, Abundance, Size & Contrast	USDA Texture
⇨				
0-14	A	2.5Y 3/2	10% 10YR 2/1	Clay Loam
14+20	C	2.5Y 2.5/1	5% 10YR 2/1	Silty Clay Loam

HYDRIC SOIL INDICATOR(S)

REFERENCE:
Field Indicators for Identifying Hydric Soils in New England, Version 2. NEIWPCC Wetlands Work Group (July 1999).

CONCLUSIONS

	Yes	No
Greater than 50% Hydrophytes?	X	
Hydric Soils Criterion Met?	(see remarks)	
Wetland Hydrology Met?	X	
IS THIS DATAPOINT A WETLAND?	X	

REMARKS: Wetland mitigation Area with disturbed soils. Soil DOES exhibit good hydric soil development.

PROJECT TITLE: Home Depot Rockland TRANSECT: Wetland (for monitoring, no upland) PLOT: DP#5

DELINEATOR(S): BJQ DATE: 7/24/2008

VEGETATION	Stratum and Species (Dominants Only)	Dominance Ratio	Percent Dominance	NWI STATUS
⇨	*Solidago* gigantica.	40/107	38%	FACW*
	Carex lurida	20/107	19%	OBL*
	Scirpus atrovirens	20/107	19%	OBL*
	Carex stipata	20/107	19%	OBL*
	Trifolium pretense	5/107	5%	FACU-
	Verbena hastate	2/107	5%	FACW+
	Alnus rugosa	20/27	74%	FACW+*
	Acer rubrum	5/27	5%	FAC
	Picea rubens	2/27	2%	FACU

⇨

OBL 3 FACW 2 FAC Other Hydrophytes FAC- 0 FACU 0 UPL 0

Hydrophytes SUBTOTAL: 5 NON-Hydrophytes SUBTOTAL: 0

PERCENT HYDROPHYTES: 100%

HYDROLOGY

RECORDED DATA

Stream, lake or tidal gage Identification:
Aerial Photograph Identification:
Other Identification:

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water:
Depth to Saturation: surface
Description of Altered Hydrology:

⇨ Inundated ✓Saturated upper 12" Water Marks Drift Lines Sediment deposits Drainage Patterns

⇨ OTHER (Explain):

SOIL

	DEPTH	HORIZON	MATRIX COLOR	REDOXIMORPHIC FEATURES Color, Abundance, Size & Contrast	USDA Texture
⇨	0-14	A	2.5Y 3/2	10% 10YR 2/1	Clay Loam
	14+20	C	2.5Y 2.5/1	5% 10YR 2/1	Silty Clay Loam

HYDRIC SOIL INDICATOR(S)

REFERENCE:
Field Indicators for Identifying Hydric Soils in New England, Version 3. NEIWPCC NE Hydric Soils Technical Committee (2004).

CONCLUSIONS

	Yes	No
Greater than 50% Hydrophytes?	X	
Hydric Soils Criterion Met?	(see remarks)	
Wetland Hydrology Met?	X	
IS THIS DATAPOINT A WETLAND?	X	

REMARKS: Wetland mitigation Area with disturbed soils. Soil DOES exhibit good hydric soil development.