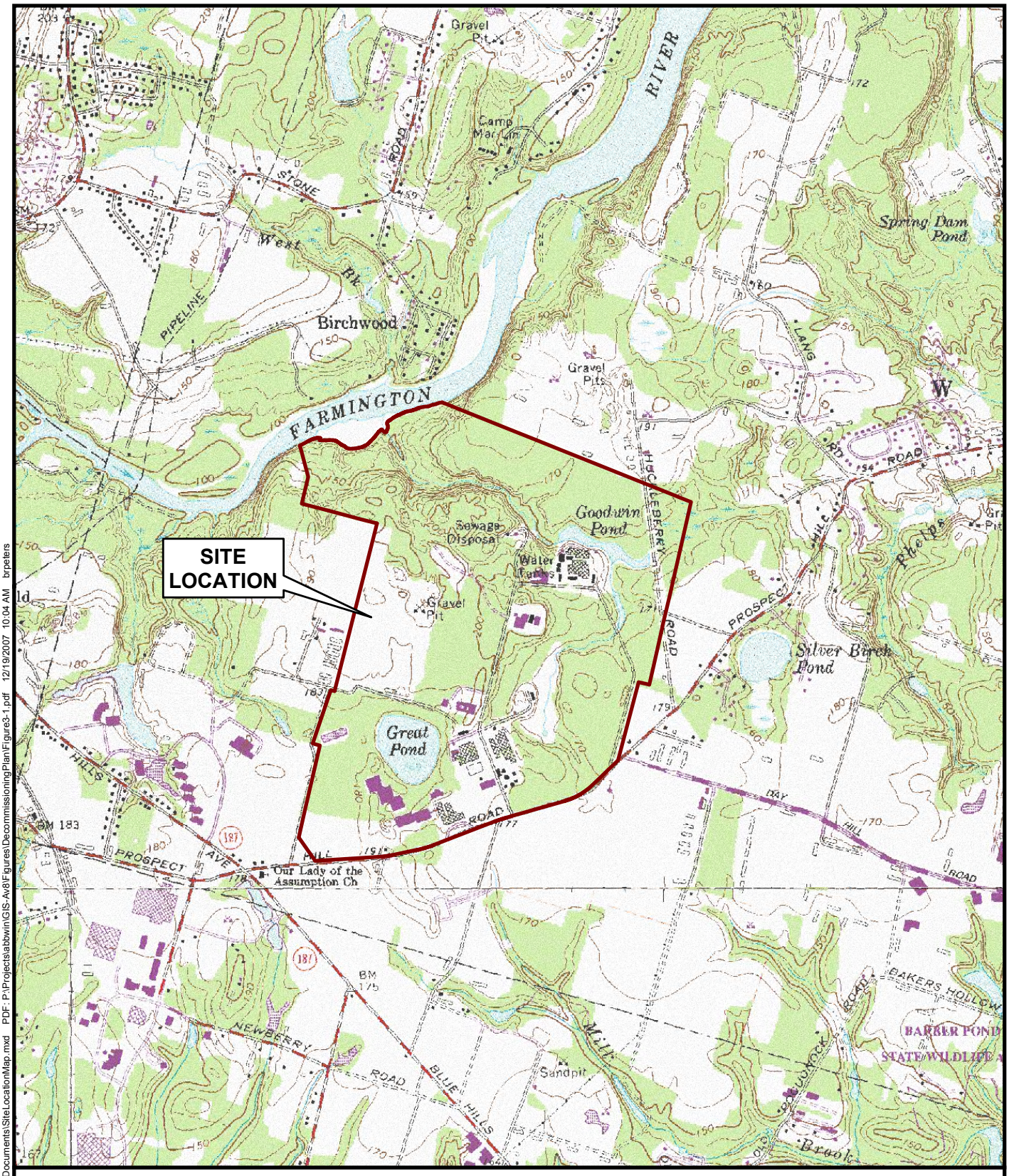
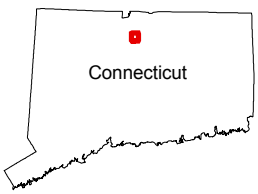


Index Map



Map Source: 1:24,000 scale digital topographic map obtained from Environmental GIS Data for Connecticut, 2003 Edition, State of Connecticut Department of Environmental Protection. Windsor Locks, CT 1964, Photorevised 1984.

N

0 1,000 2,000 Feet

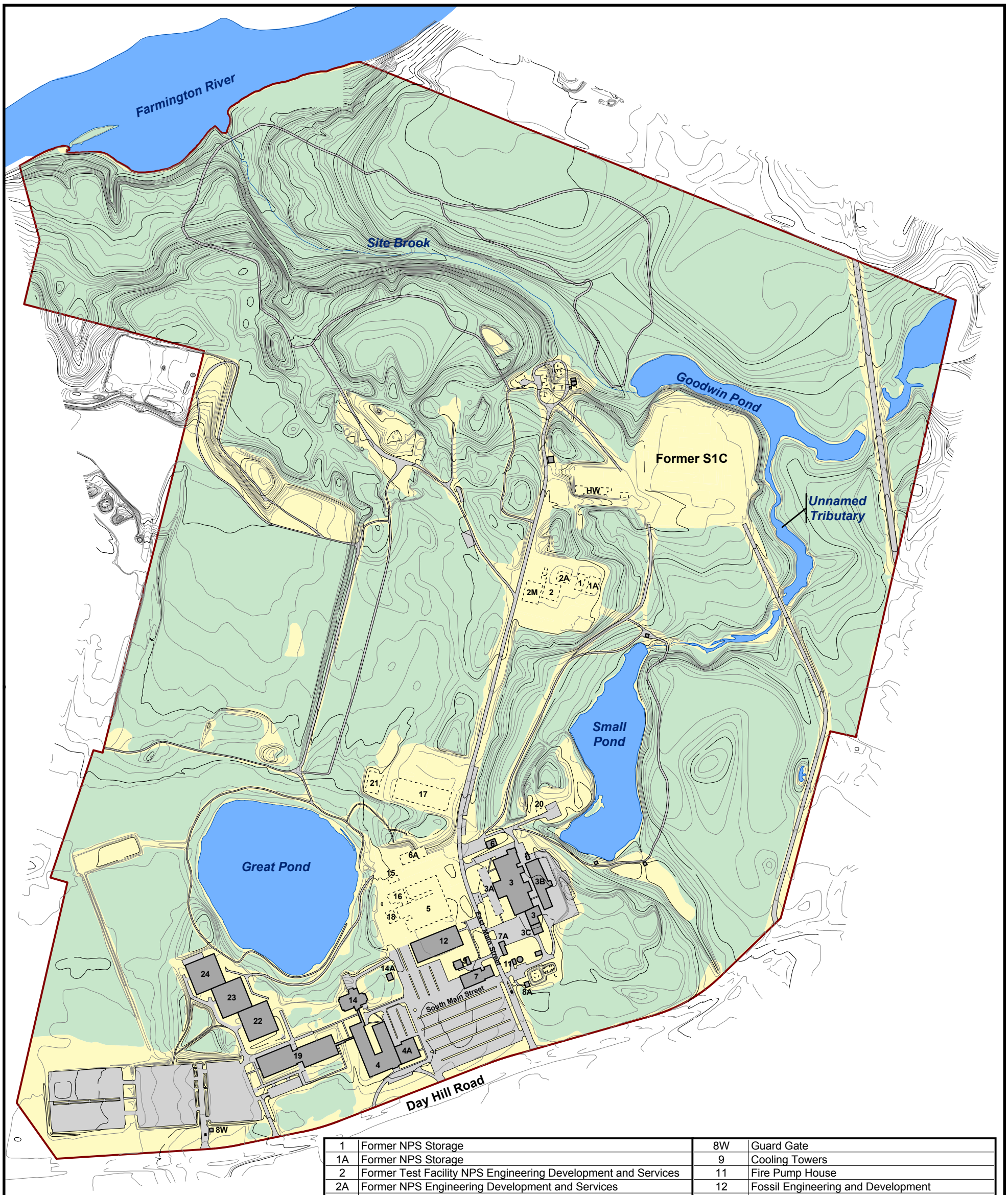
Prepared/Date: BRP 12/19/07 | Checked/Date: HTD 12/19/07

Figure 3-1
Site Location Map

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\ABBWIN\GIS-Av8\MapDocuments\SiteLocationMap.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\DecommissioningPlan\Figure3-1.pdf 12/19/2007 10:04 AM brpeters



1	Former NPS Storage	8W	Guard Gate
1A	Former NPS Storage	9	Cooling Towers
2	Former Test Facility NPS Engineering Development and Services	11	Fire Pump House
2A	Former NPS Engineering Development and Services	12	Fossil Engineering and Development
2M	Former NPS Technical Services	14	General Dining, Mail, Credit Union
3	Former Kreisinger Development Lab - FPS	14A	Shower / Locker Room Facility
3A	Former Kreisinger Development Lab Offices - FPS	15	Former Facilities Engineering & Services
3B	Combustion Research Complex	16	Former NPS Engineering Development Lab
3C	Utility Building	17	Former Nuclear Products Mfg Fuel Fabrication
4	General Offices	18	Former NPS Engineering Development Lab
4A	Telephone Switch Room	19	General Offices
6	Former Hot Waste Retention Vault	20	Former Facilities Engineering & Services
6A	Facilities Engineering & Services	21	Former Nuclear Products Mfg Warehouse
7	Central Boiler House & Chilling Plant	22	General Offices
7A	Facilities Engineering & Services	23	General Offices
8A	Security Control	24	General Offices

Legend

- Former Building
- Existing Building
- Site Boundary
- Water
- Road
- Index Contour (10')
- Intermediate Contour (2')
- Forest
- Open
- Water
- Road

N

0 300 600 Feet

Prepared/Date: BRP 12/31/08 | Checked/Date: HTD 12/31/08

Figure 3-2
Current Site

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

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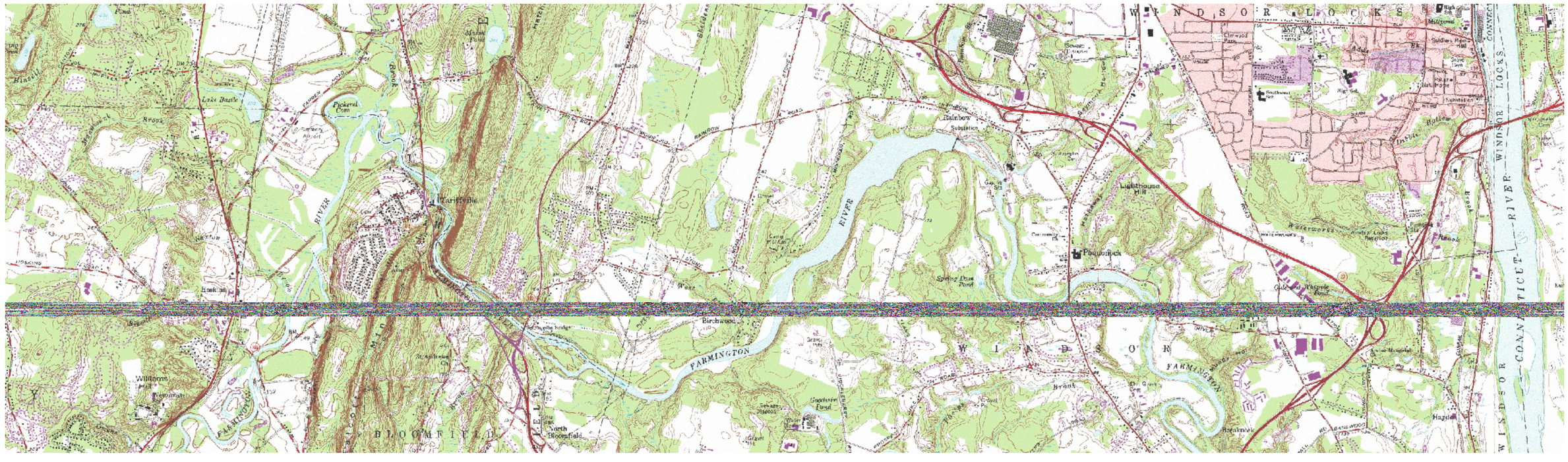
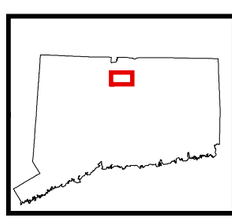
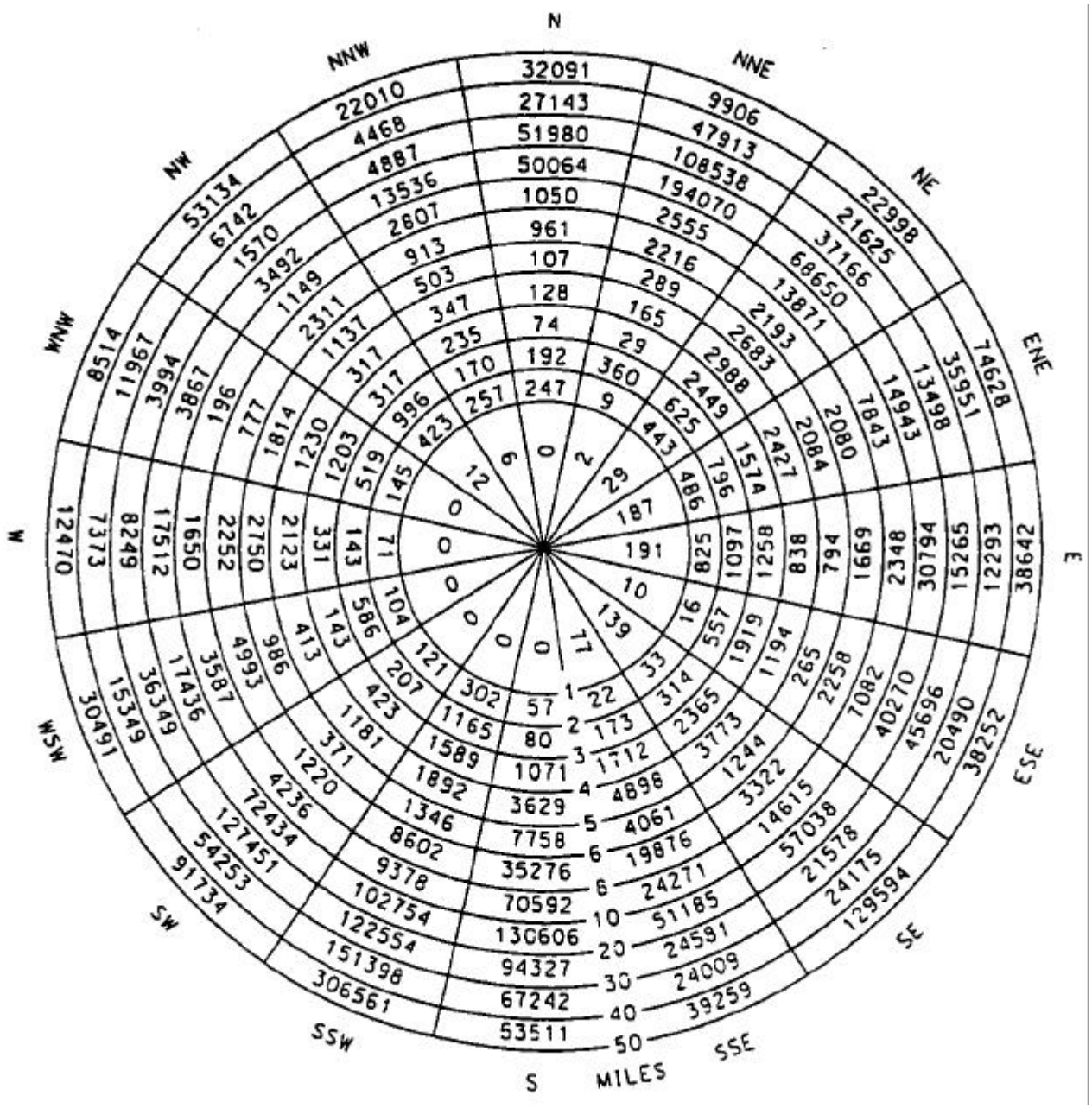

WINDSOR LOCKS
Lake Basile
Pickerel Cove
Tariffville
RIVER
Rainbow
Substation
Lighthouse Hill
Pomonock
Spring Dam Pond
Birchwood
FARMINGTON
WINDSOR
Williams Hill
BLOOMFIELD
North Bloomfield
Goodwin Pond
Breakneck
Hayden
WINDSOR LOCKS
CONNECTICUT RIVER





Source: U.S. Department of Energy, Office of Naval Reactors. Environmental Impact Statement, SIC Prototype Reactor Plant Disposal, Volume 1 of 2, November 1996.

FIGURE 3-4
1990 POPULATION DISTRIBUTION WITHIN A 50-MILE RADIUS
DECOMMISSIONING PLAN
CE WINDSOR SITE
WINDSOR, CONNECTICUT

FARMINGTON RIVER

DENSE TILL RIDGE

WINDSOR / BLOOMFIELD LANDFILL

MW-20S
MW-15S
MW-N02
MW-26
MW-2
MW-25
MW-27
MW-N01
WP-1401D
WP-1401S
MW-N03S
MW-N03D
WP-1402S
WP-1402D
MW-24
MW-22S
MW-N09D
HUCKLEBERRY RD.
MW-N05
WP-1403D
WP-1403S
MW-23
MW-N06
MW-N06D
MW-N04S
MW-N04D
MW-1106
MW-1222
NO#A
NO#B
GOODWIN POND
MW-1221
MW-0103
MW-2202
MW-2202D
MW-N07
MW-13S
MW-1220
MW-6
MW-0301
MW-12S
FORMER S1C
MW-2
MW-3
MW-11
MW-N08
MW-IW
HW
MW-4
MW-10D
MW-15D
MW-15S
MW-2
MW-1
MW-0105
MW-0102
MW-2102
MW-0118
E-1
MW-0302
MW-1219
SAND & GRAVEL STRIP MINE
MW-0110
MW-0106
2A
1
1A
2M
2
MW-1218
MW-1217
MW-0109
MW-1216
GB Area
GA Area
MW-E03
MW-0101
MW-1215
SMALL POND
WATER GAUGE
MW-W01
MW-W02D
MW-W02S
MW-1007
MW-1214
MW-E02D
MW-E02S
21
17
MW-1004S
MW-1004D
MW-1004CD
MW-1006
20
MW-1213
MW-1005
MW-1014
MW-0905
6
MW-1603
MW-0607
MW-1203
GREAT POND
WATER GAUGE
MW-0602
6A
MW-1202
MW-0603
MW-1201
MW-0609
MW-1208
MW-0906D
MW-0906S
3
3B
MW-2402
15
MW-1209
3A
MW-0904
MW-0907
AOC-24
MW-0608
MW-0601
16
MW-1204
5
3
18
MW-1212
MW-1210
3C
MW-1211
12
MW-E01
7A
MW-1806
MW-1807
MW-1805
MW-1808
11
MW-1804
MW-1809
9
14A
7
8A
24
23
14
22
MW-S02
MW-2401
19
4A
4
MW-S01
DAY HILL ROAD

Legend

- Monitoring Well
- Piezometer
- Area Classified as GB
- Index Contour (10')
- Intermediate Contour (2')
- Former Building
- Existing Building
- Site Boundary
- Water
- Road
- Forest
- Open
- Water
- Road

N

0 150 300 Feet

Prepared/Date: BRP 12/31/08 | Checked/Date: HTD 12/31/08

Figure 3-5
Area of GB Groundwater Classification

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

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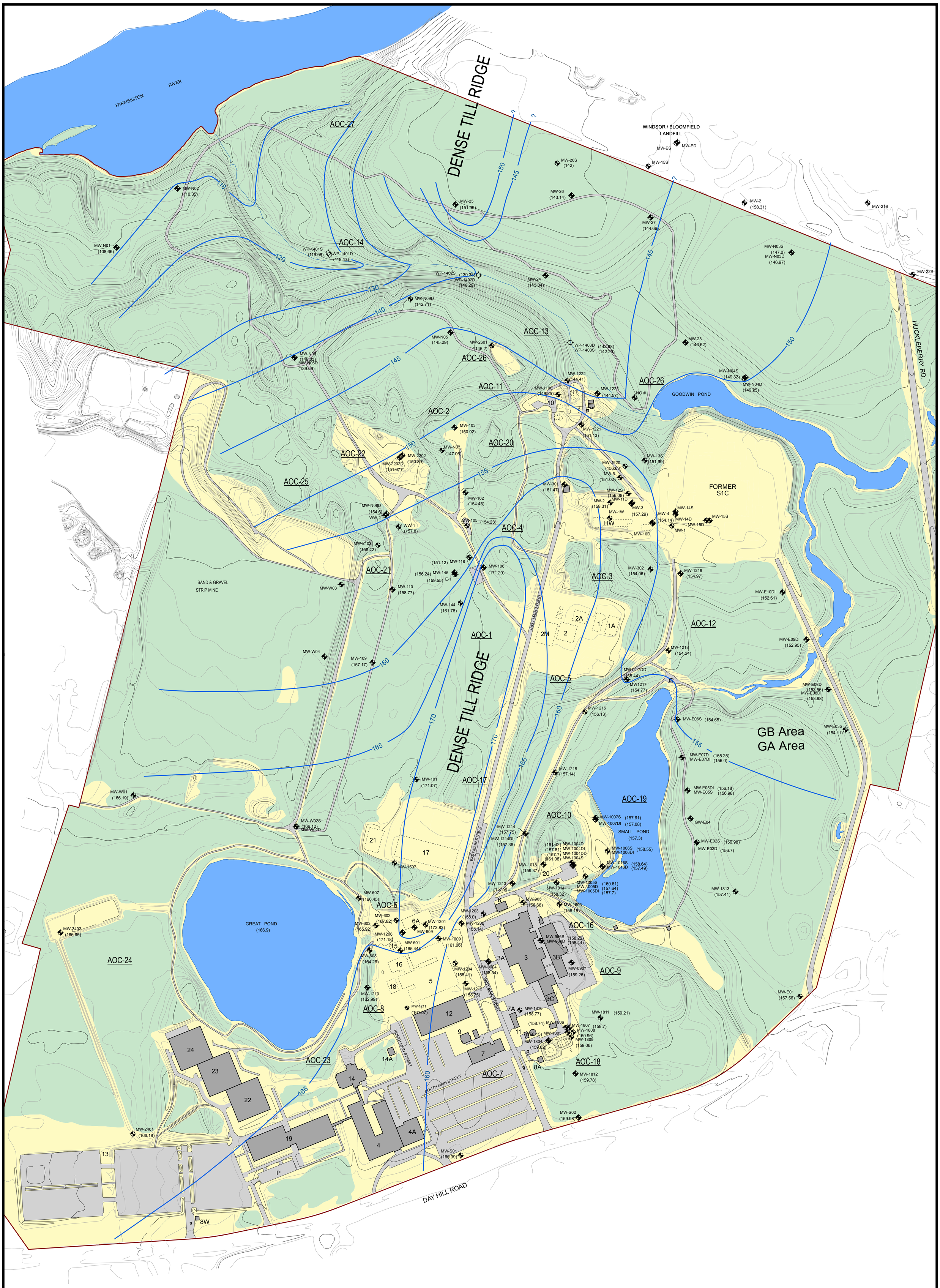

Legend

- 145 — Interpreted Groundwater Surface Contour
- Monitoring Well
- Piezometer
- (168.5) Groundwater Elevation FT (MSL) October 3-4, 2001
- Index Contour (10')
- Intermediate Contour (2')
- Former Building
- Existing Building
- Site Boundary
- Water
- Road
- Forest
- Open
- Water
- Road

N

0 125 250 Feet

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Figure 3-6
Interpreted Groundwater Contours
October 2001

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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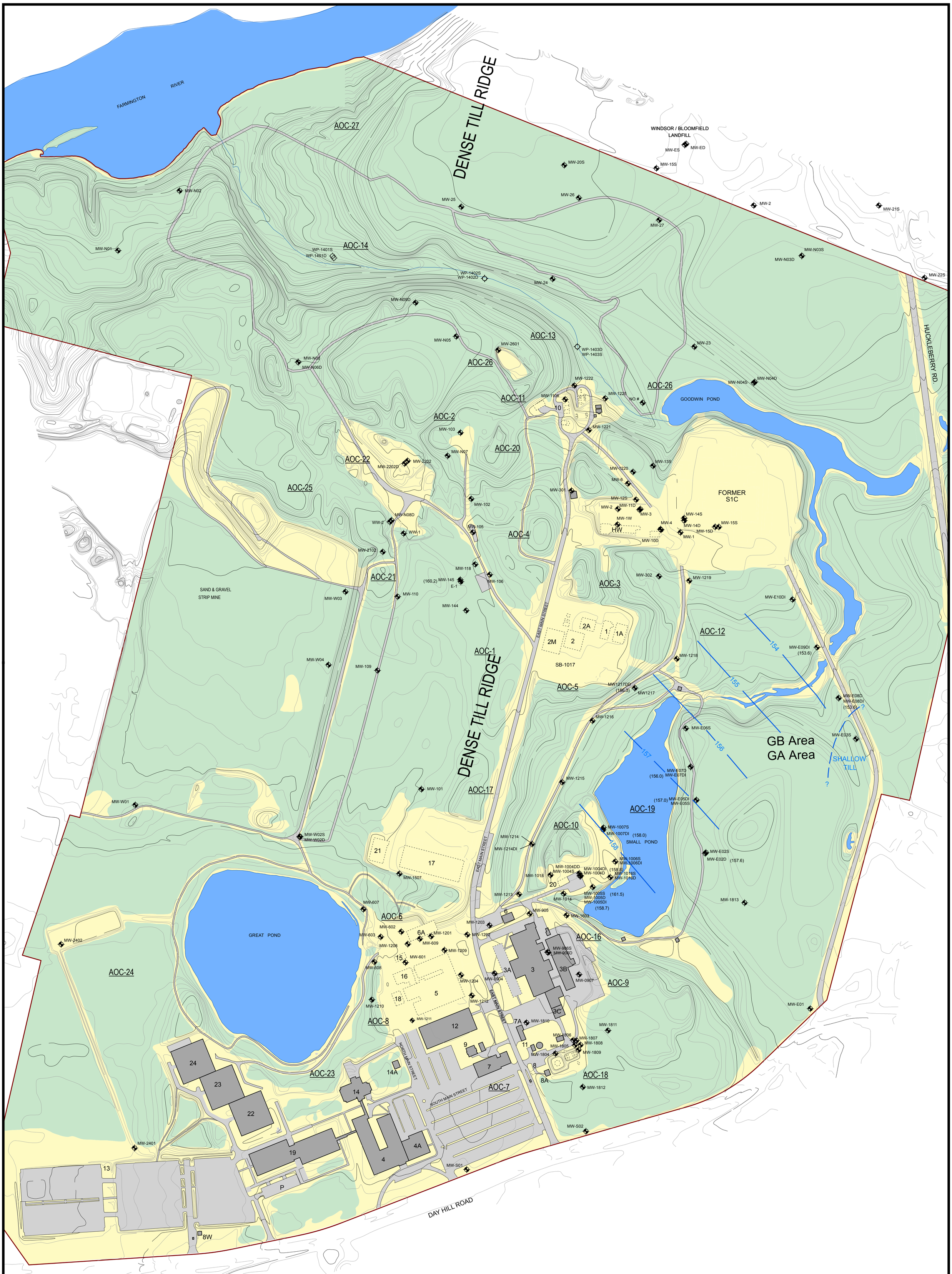

Legend

- 158 — Interpreted Piezometric Elevation Contour
- Monitoring Well
- Piezometer
- (168.5) Groundwater Elevation FT (MSL) July 16, 2001
- Index Contour (10')
- Intermediate Contour (2')
- Former Building
- Existing Building
- Site Boundary
- Water
- Road
- Forest
- Open
- Water
- Road

N

0 125 250 Feet

Prepared/Date: BRP 12/31/08 | Checked/Date: HTD 12/31/08

Figure 3-7
Interpreted Piezometric Contours in Intermediate Depth Monitoring Wells, July 2001

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

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Figure 4-1

Figure 4-2

Figure 4-3

Figure 4-4

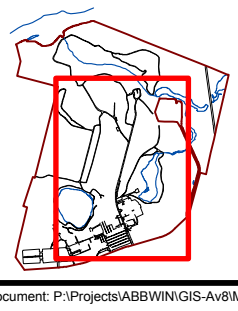
Figure 4-5

Figure 4-6

Figure 4-7

CONTENTS DELETED BY REVISION 1

DECOMMISSIONING COMPLETE



Legend

- Industrial Waste Line
- Sanitary Waste Line
- Hot Waste Line
- Former Building
- Existing Building
- Site Boundary
- Water
- Road
- Forest
- Open
- Water
- Road

N

0 175 350 Feet

Prepared/Date: BRP 12/31/08 | Checked/Date: HTD 12/31/08

Figure 4-8
Industrial Waste and Sanitary Waste Lines

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

Figure 4-9
Storm Water Line Locations

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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Figure 4-10

CONTENTS DELETED BY REVISION 1

DECOMMISSIONING COMPLETE

Farmington River
Clam Shell Pile
Site Brook
Former WWTP Area
Debris Piles
Sludge Piles
Burning Grounds
Goodwin Pond
Former Gravel Pit
Former S1C
Drum Burial Pit
HW
Unnamed Tributary
Industrial Waste Lines
Woods Area
2A
1
1A
2M
2
GB Area
GA Area
Small Pond
Equipment Storage Yard
21
17
20
6
6A
3
3B
3A
15
16
18
5
3
3C
Great Pond
Building 6 Complex
Building 3 Complex
12
7A
11
9
7
14A
Southeast Parcel
8A
24
23
22
14
19
4
4A
Day Hill Road

Legend

- Impacted Area Boundary
- Commercial D&D Complete
- Final Status Survey Complete
- Remaining Areas
- Former Building
- Existing Building
- Site Boundary
- Water
- Road
- Index Contour (10')
- Intermediate Contour (2')
- Forest
- Open
- Water
- Road

N

0 125 250 Feet

Prepared/Date: BRP 12/31/08 | Checked/Date: HTD 12/31/08

Figure 4-11
Summary of Impacted Areas

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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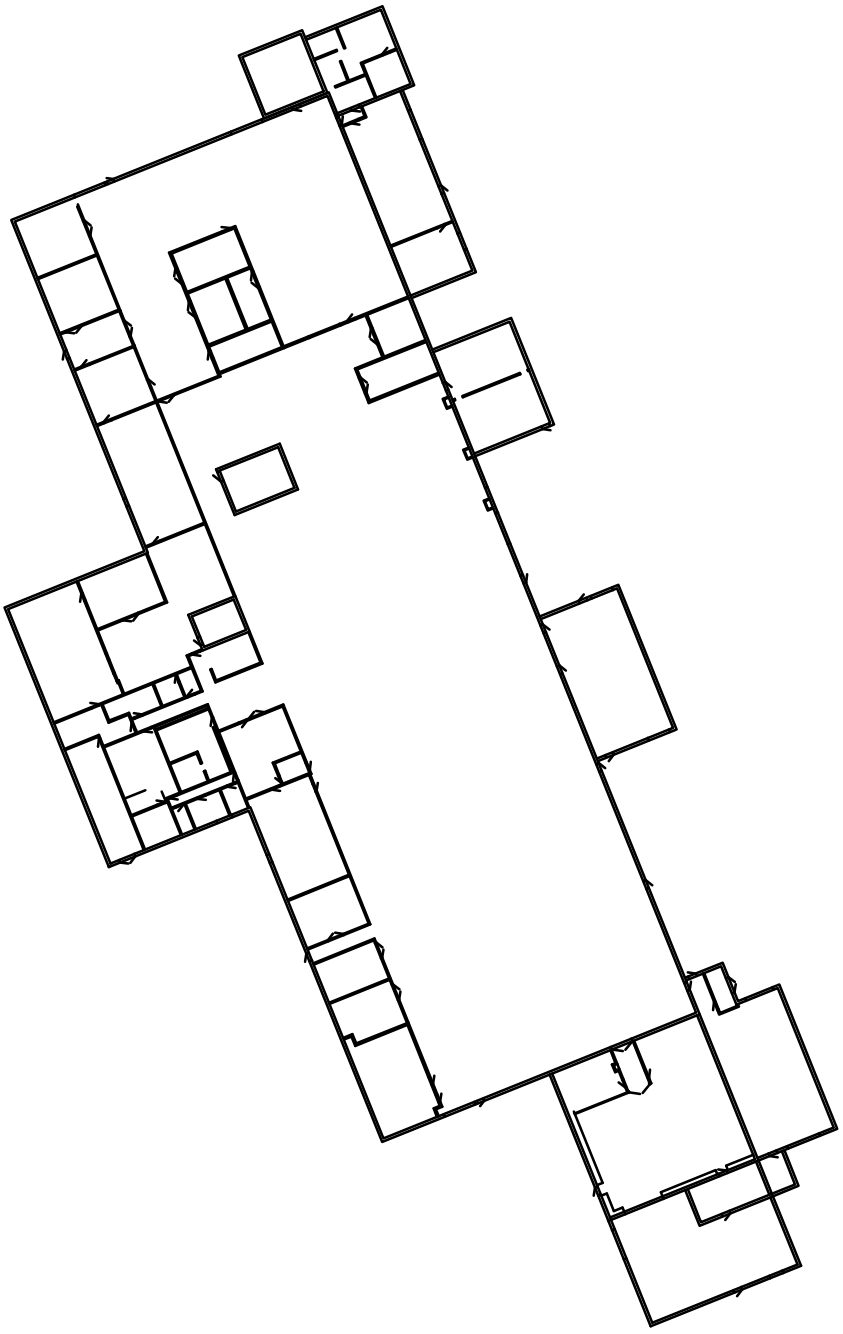

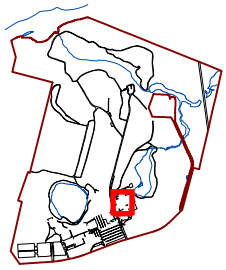

Legend

Building 3 Floor Plan

N

0 35 70

Feet

Prepared/Date: BRP 01/08/08 | Checked/Date: HTD 01/08/08

Figure 4-12
Building 3

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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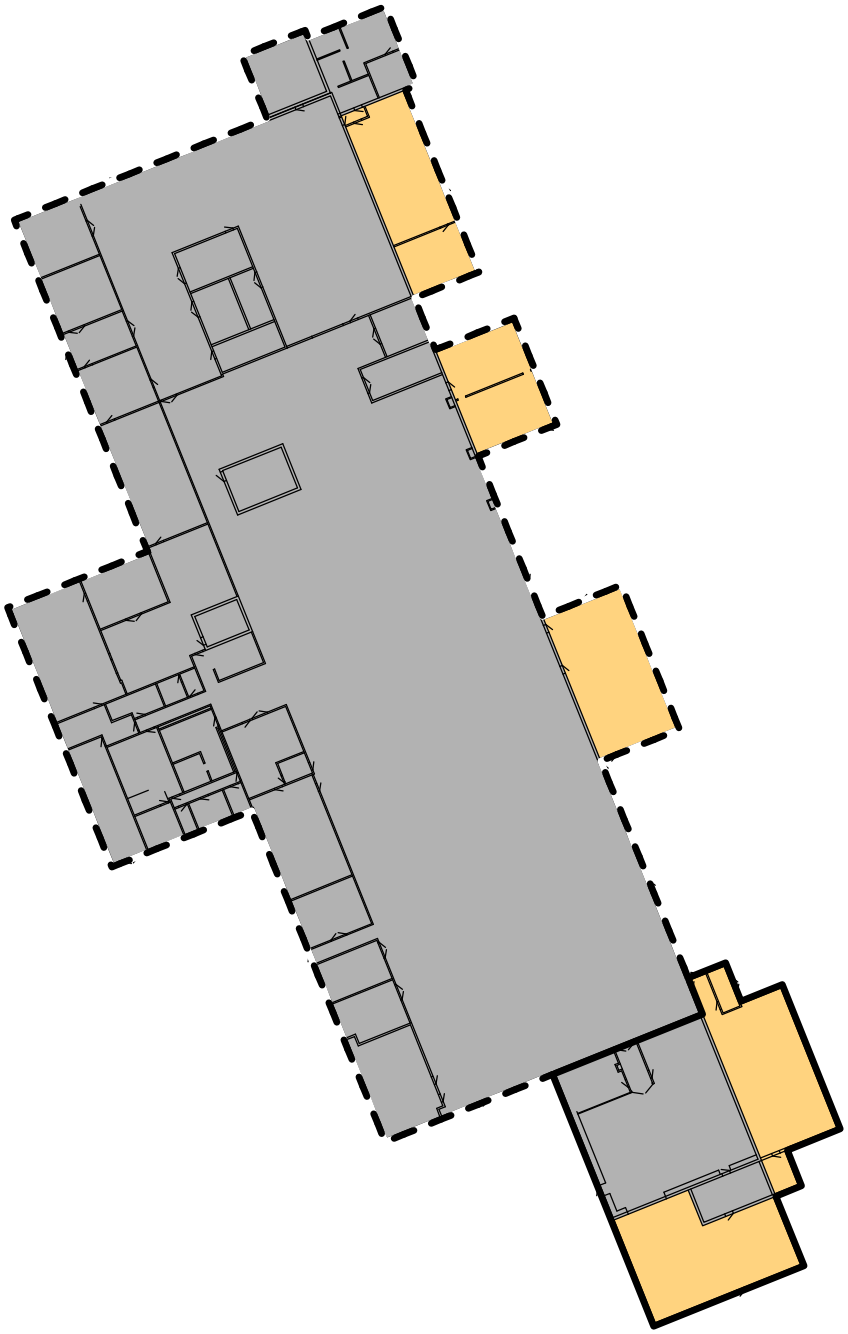

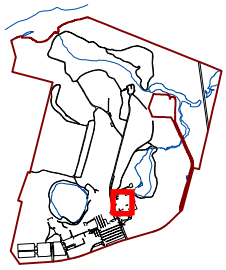

N

0 35 70 Feet

Legend

- Building 3 Floor Plan
- Original Construction
- Later Addition
- Building to be Demolished
- Building to Remain

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Figure 4-13
Building 3
Original Construction
and Additions
Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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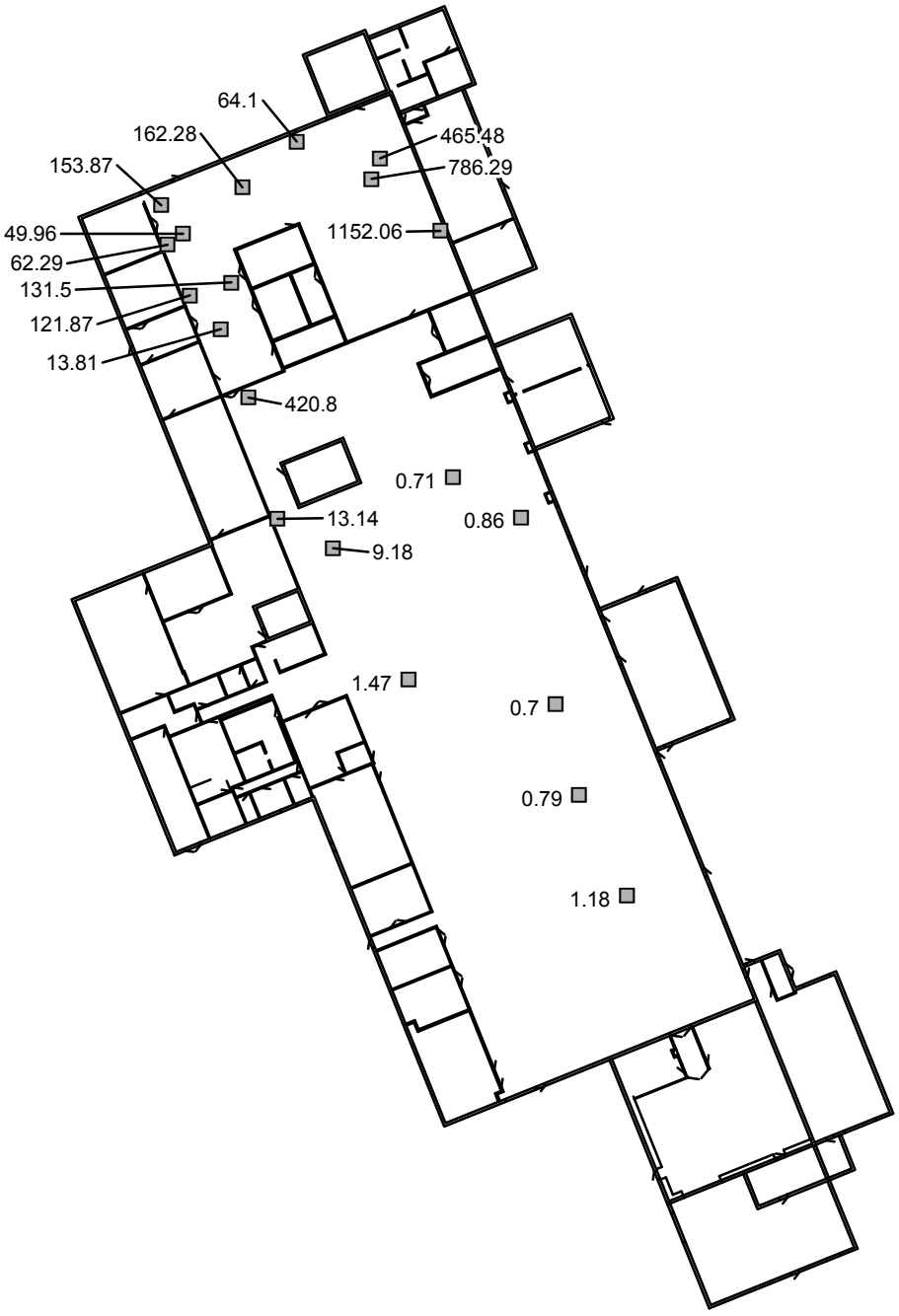

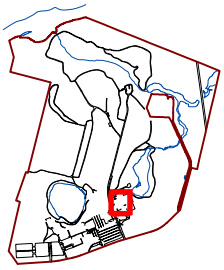

Legend

Total U (pCi/g) ■ Concrete - Surface (to 3 mm)

N

0 35 70 Feet

Prepared/Date: BRP 01/09/08 | Checked/Date: HTD 01/09/08

Figure 4-14
Building 3
Concrete Surface Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

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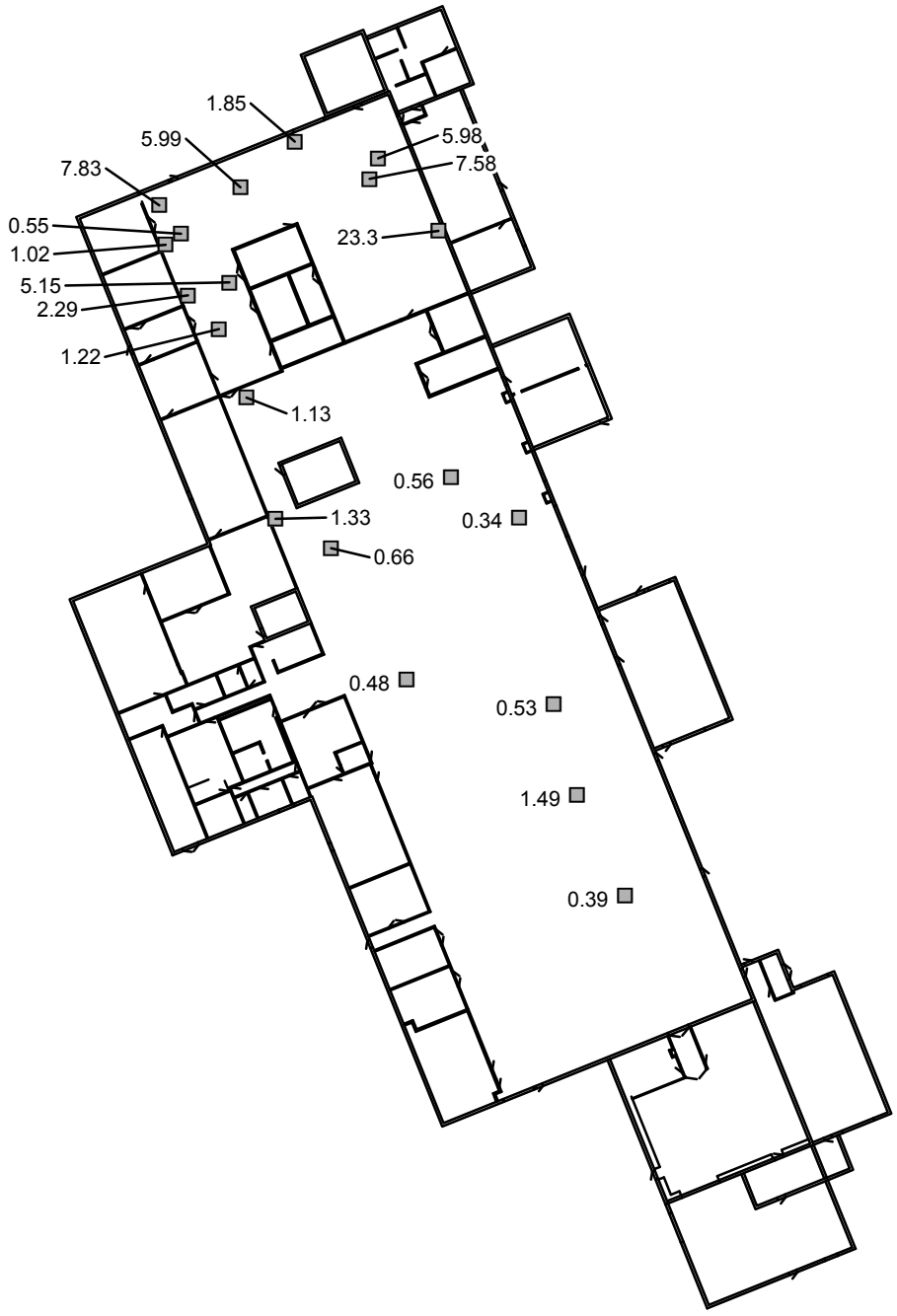

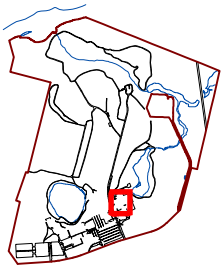

Legend

Total U (pCi/g) ■ Concrete - Core (to 6 inches)

N

0 35 70 Feet

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Figure 4-15
Building 3
Concrete Core Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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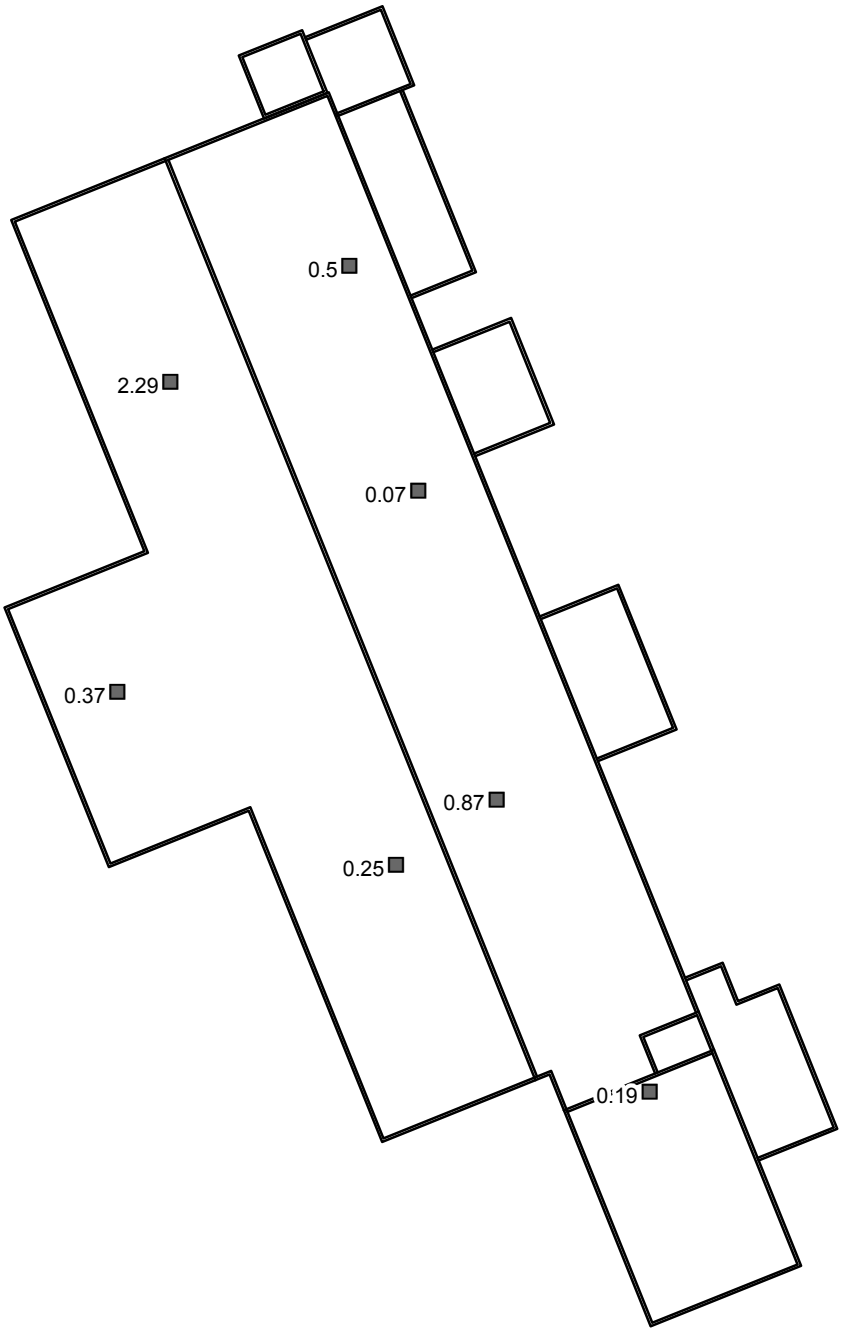

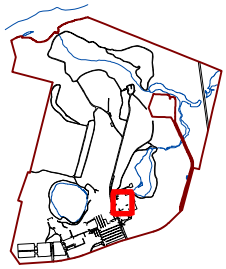

Legend

Total U (pCi/g) ■ Roof

N

0 35 70 Feet

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Figure 4-16
Building 3
Roof Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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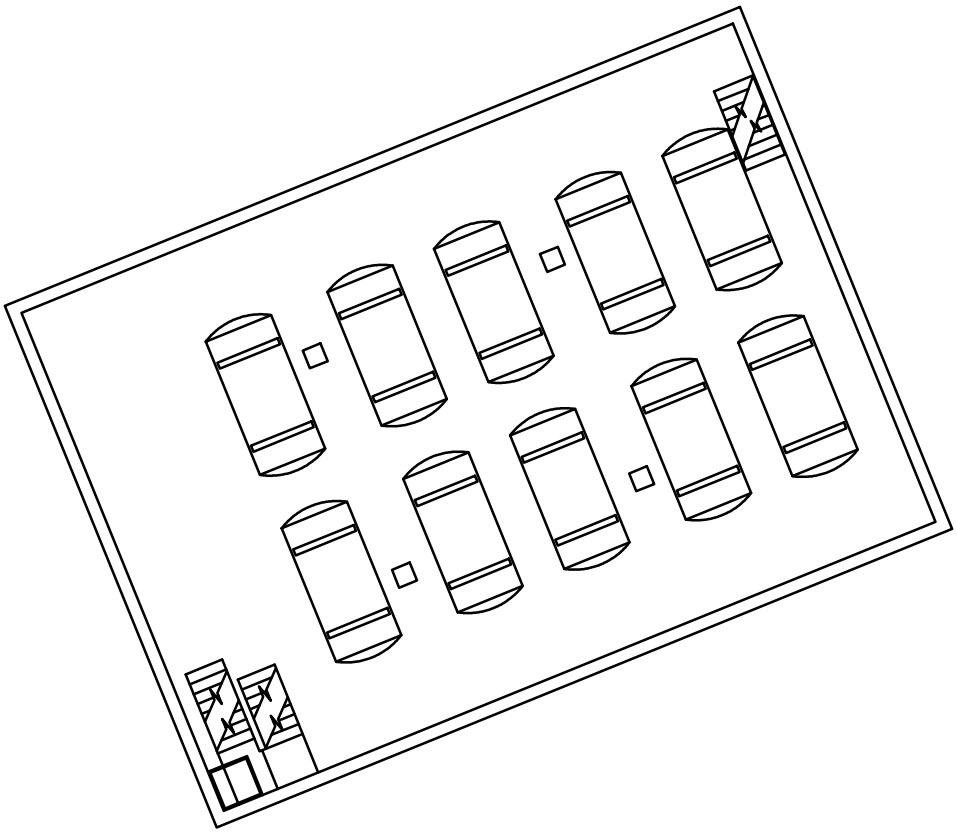

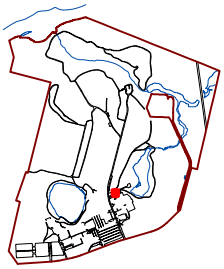

Legend

Building 6 Basement Floor Plan

N

0 7.5 15 Feet

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Figure 4-17
Building 6
Basement

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

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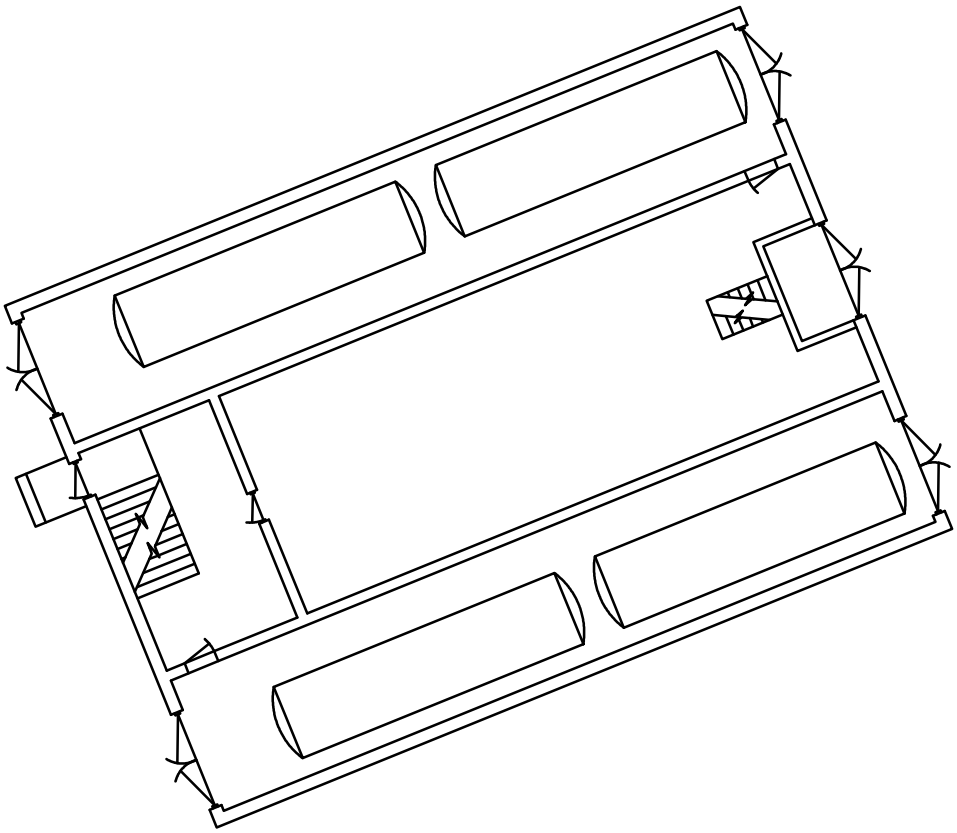

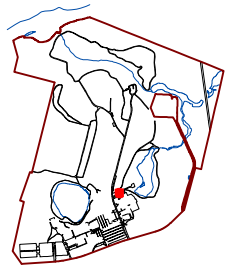

Legend

Building 6 Ground Floor Plan

N

0 7.5 15 Feet

Prepared/Date: BRP 01/08/08 | Checked/Date: HTD 01/08/08

Figure 4-18
Building 6
Ground Floor

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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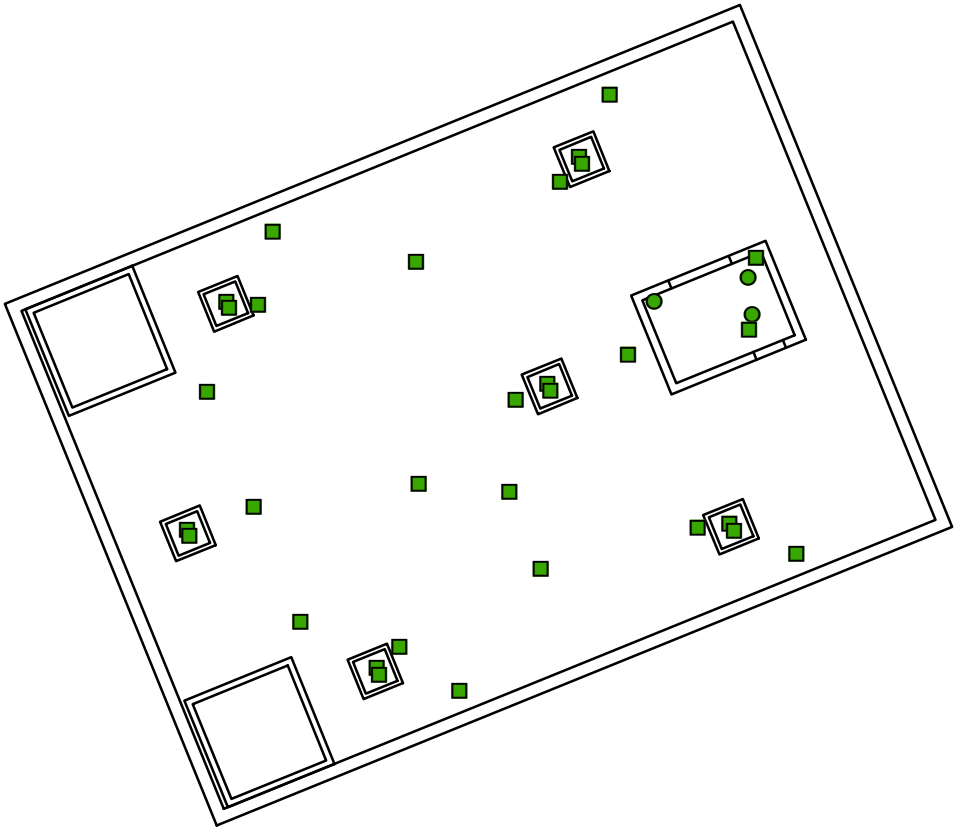

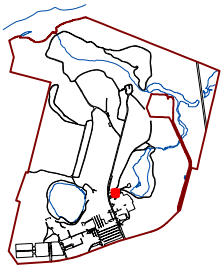

Legend

- Fixed Beta <= 5000
- Removable Beta <= 1000
- Building 6 Roof

N

0 7.5 15 Feet

Prepared/Date: BRP 01/24/08 | Checked/Date: HTD 01/24/08

Figure 4-19
Building 6
Roof Survey

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

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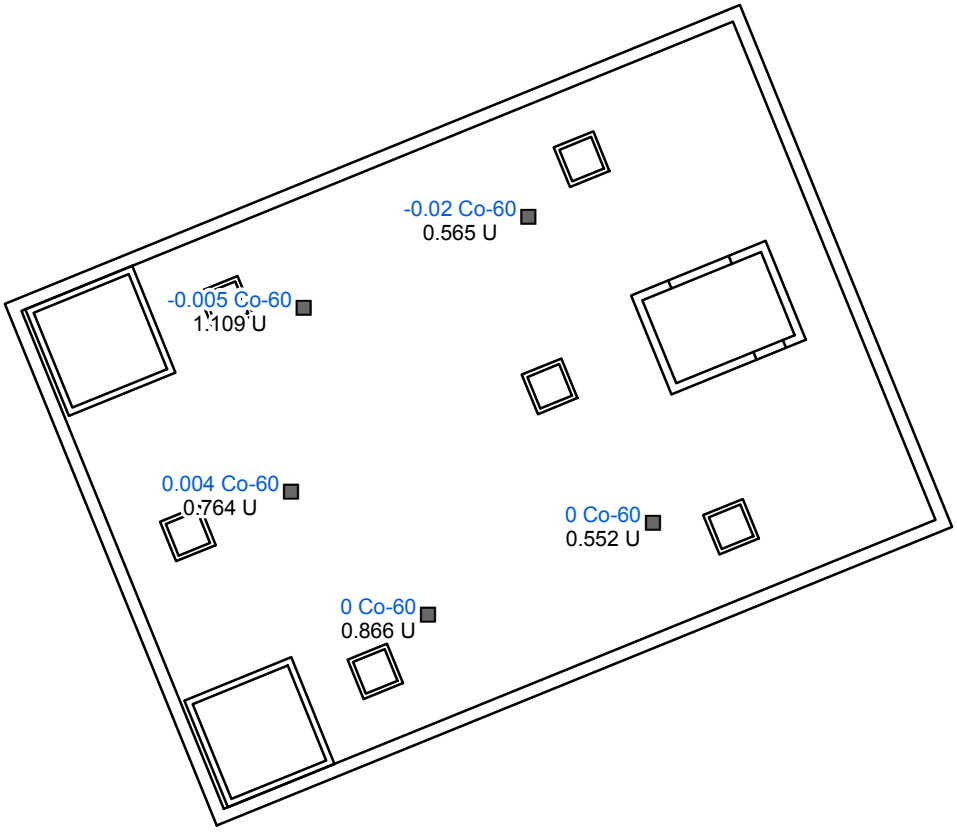

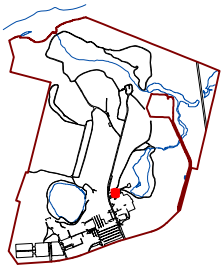

Legend

Co-60 (pCi/g)
Total U (pCi/g)
Roof
Building 6 Roof

N

0 7.5 15 Feet

Prepared/Date: BRP 01/08/08 | Checked/Date: HTD 01/08/08

Figure 4-20
Building 6
Roof Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

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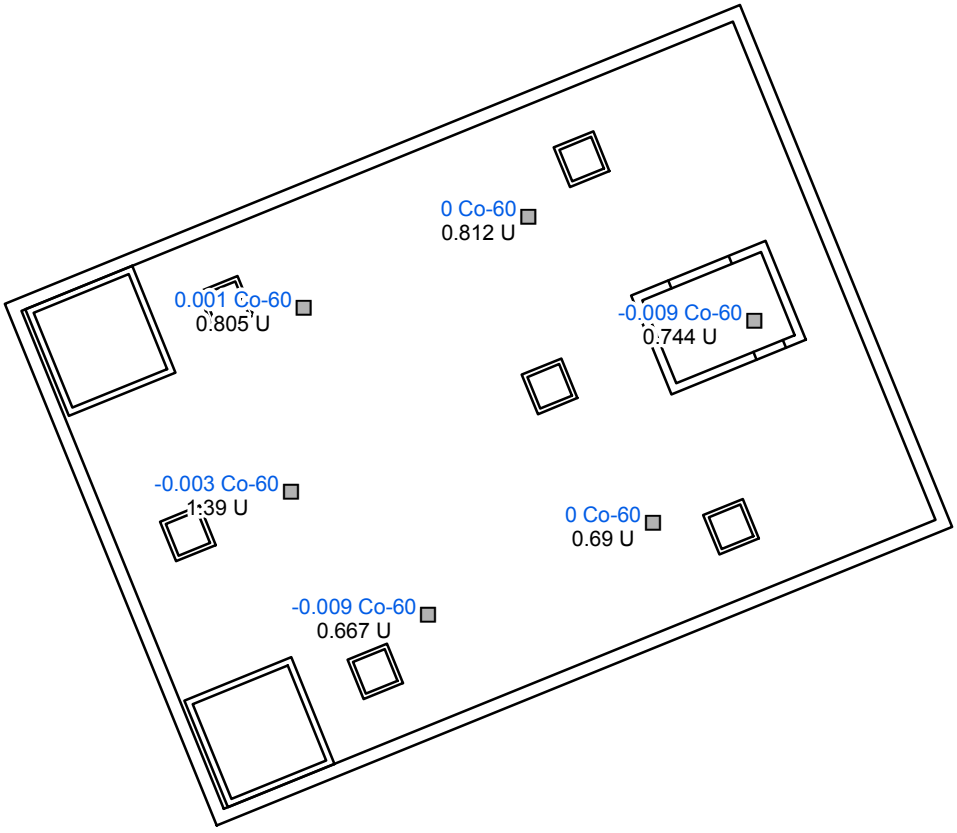

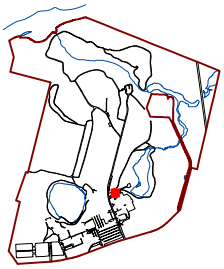

Legend

Co-60 (pCi/g)
Total U (pCi/g)
Core (to 6 inches)
Building 6 Roof

N

0 7.5 15
Feet

Prepared/Date: BRP 01/09/08 | Checked/Date: HTD 01/09/08

Figure 4-21
Building 6
Roof Concrete Core Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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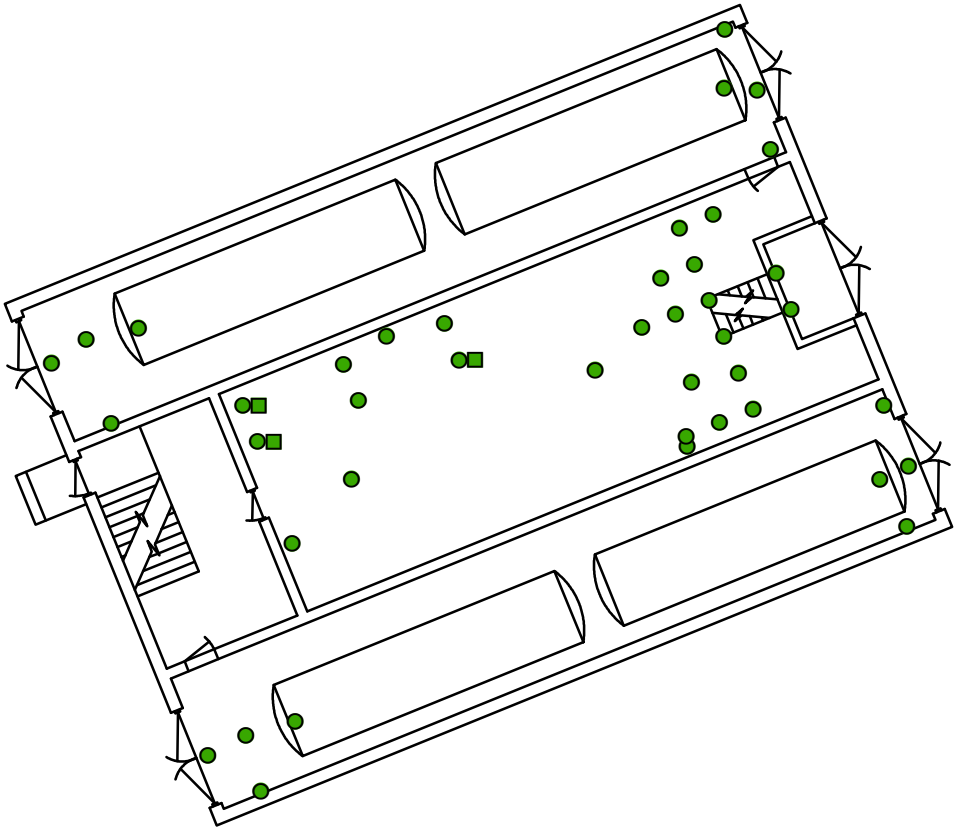

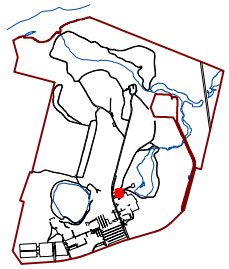

Legend

- Fixed Beta <= 5000
- Removable Beta <= 1000
- Building 6 Ground Floor Plan

N

0 7.5 15 Feet

Prepared/Date: BRP 01/24/08 | Checked/Date: HTD 01/24/08

Figure 4-22
Building 6
Ground Floor Survey

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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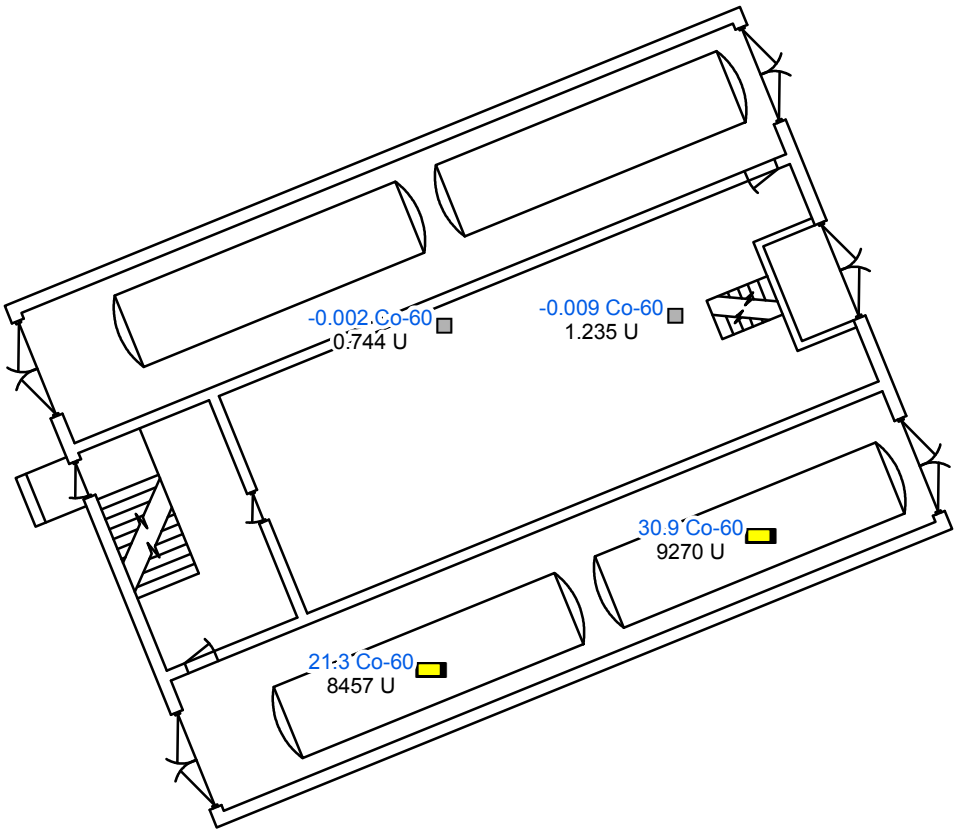

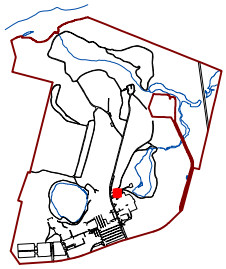

Legend

Co-60 (pCi/g)
Total U (pCi/g)

Tank/Sediment
Concrete Core (to 6 inches)
Building 6 Ground Floor Plan

N

0 7.5 15 Feet

Prepared/Date: BRP 01/09/08 | Checked/Date: HTD 01/09/08

Figure 4-23
Building 6
Ground Floor & Tank Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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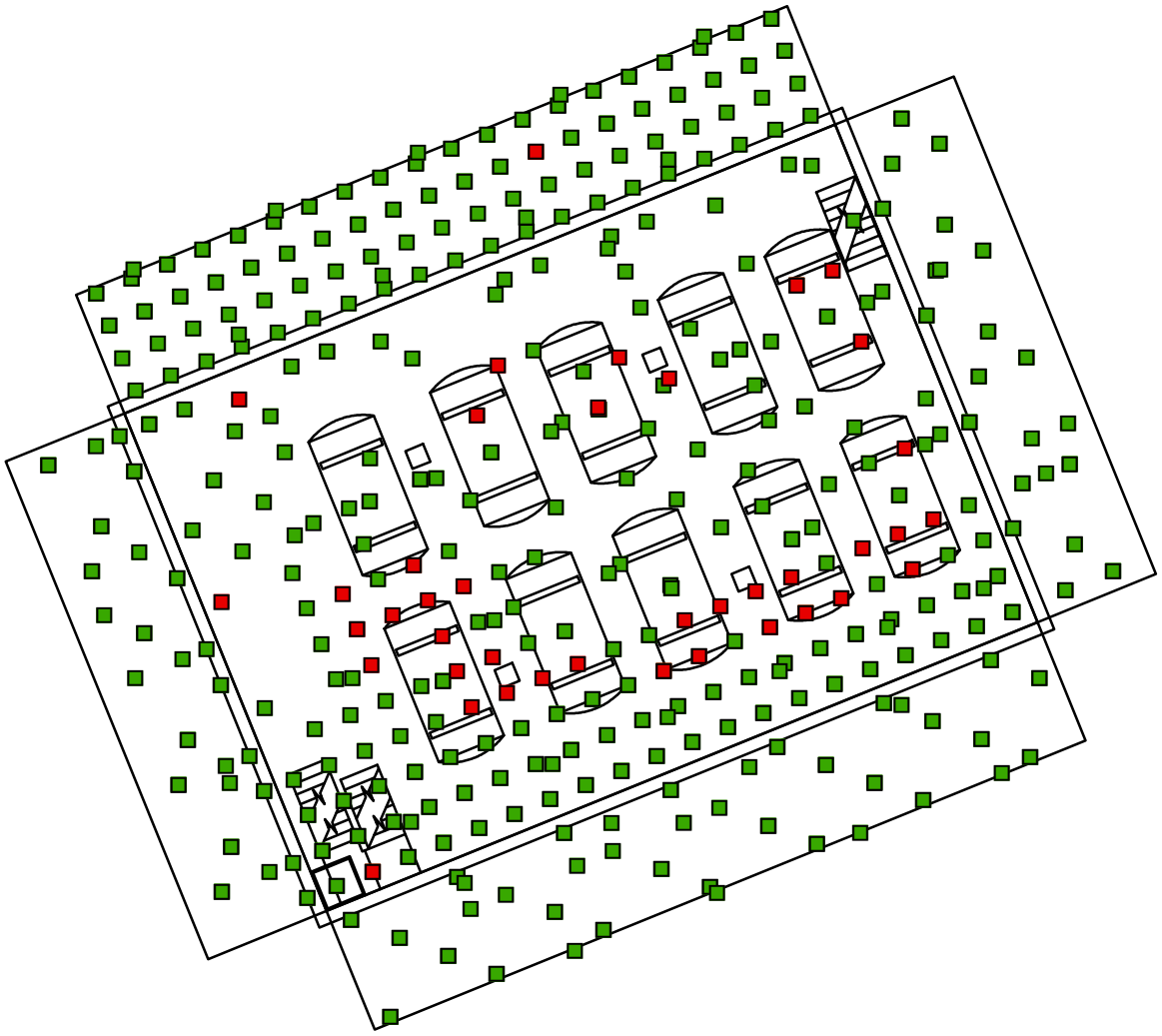

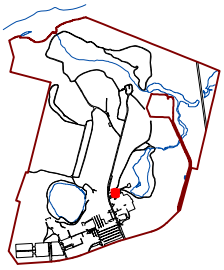

Legend

- Fixed Beta > 5000
- Fixed Beta <= 5000
- Building 6 Basement & Walls

N

0 7.5 15 Feet

Prepared/Date: BRP 01/24/08 | Checked/Date: HTD 01/24/08

Figure 4-24
Building 6
Basement Surveys - Fixed

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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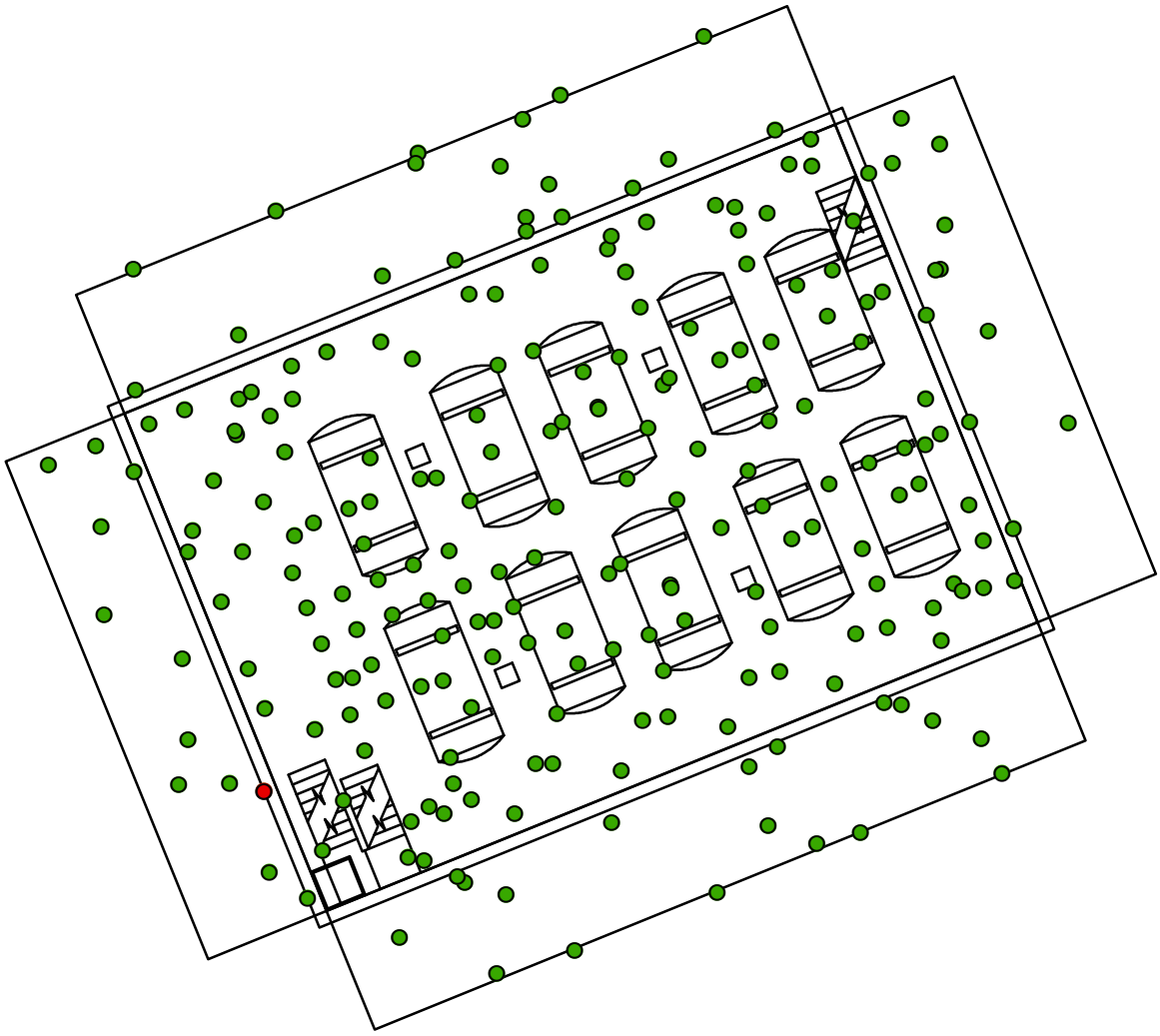

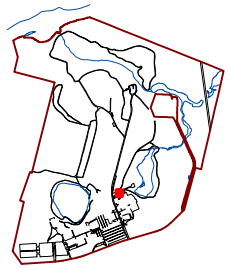

Legend

- Removable Beta > 1000
- Removable Beta <= 1000
- Building 6 Basement & Walls

N

0 7.5 15 Feet

Prepared/Date: BRP 01/24/08 | Checked/Date: HTD 01/24/08

Figure 4-25
Building 6
Basement Surveys - Removable

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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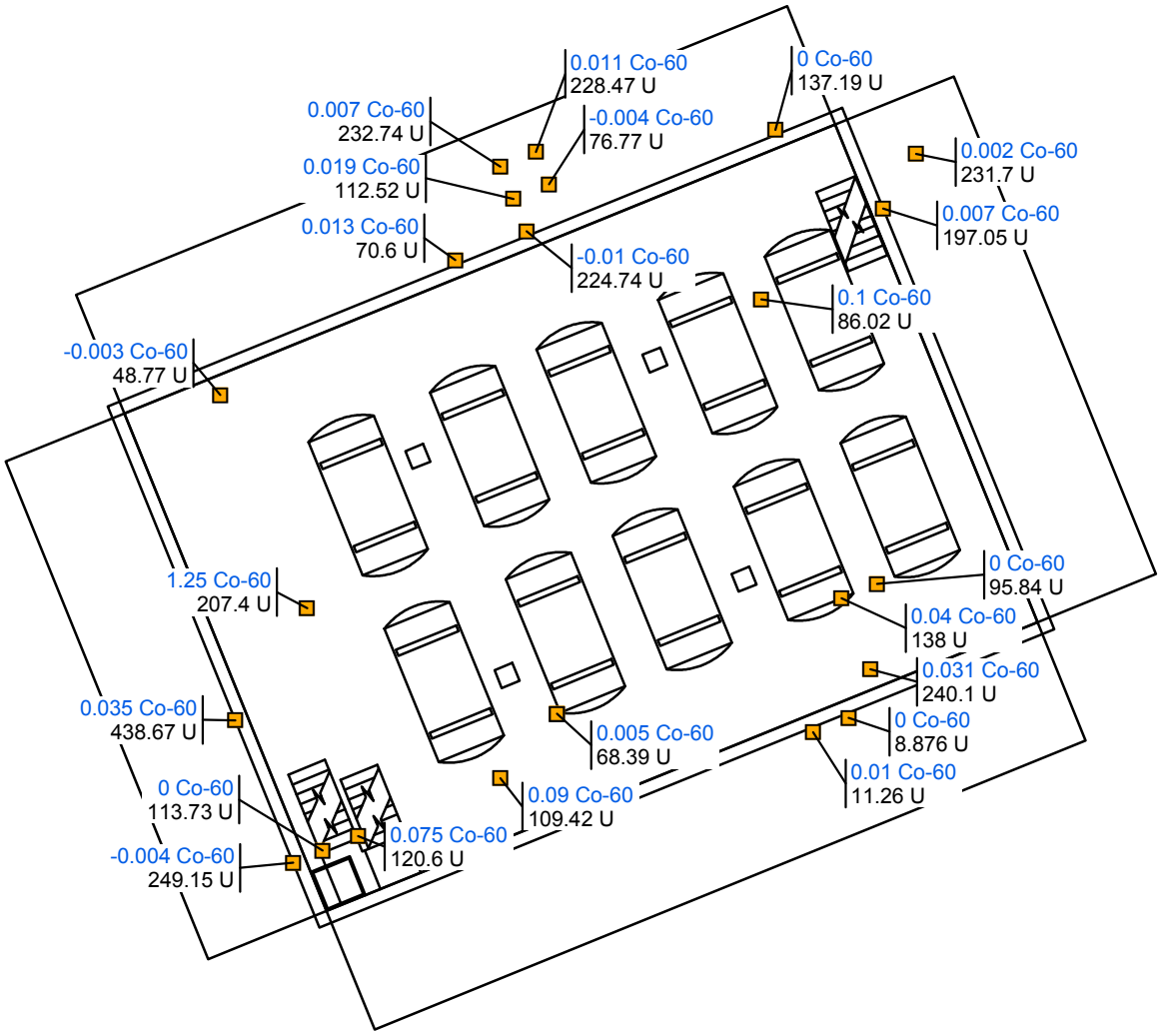

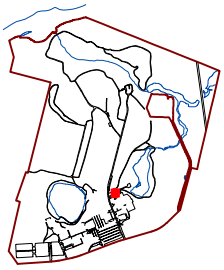

Legend

Co-60 (pCi/g)
Total U (pCi/g)

Concrete Surface (to 3 mm)

Building 6 Basement & Walls

N

0 7.5 15 Feet

Prepared/Date: BRP 01/09/08 | Checked/Date: HTD 01/09/08

Figure 4-26
Building 6
Basement - Concrete Surface Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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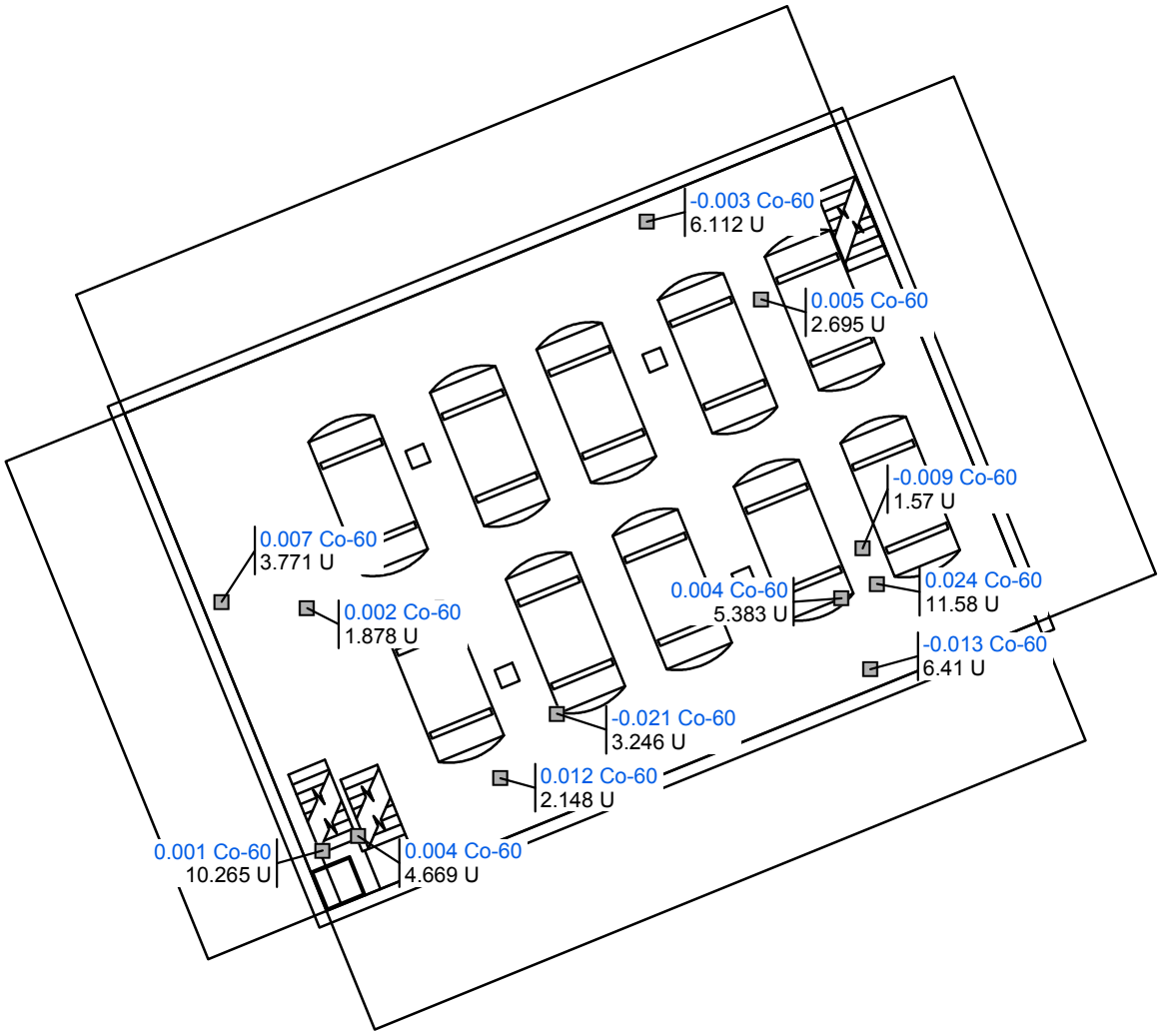

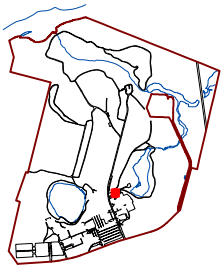

Legend

Co-60 (pCi/g)
Total U (pCi/g)

Concrete Core (to 6 inches)

Building 6 Basement & Walls

N

0 7.5 15 Feet

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Figure 4-27
Building 6
Basement - Concrete Core Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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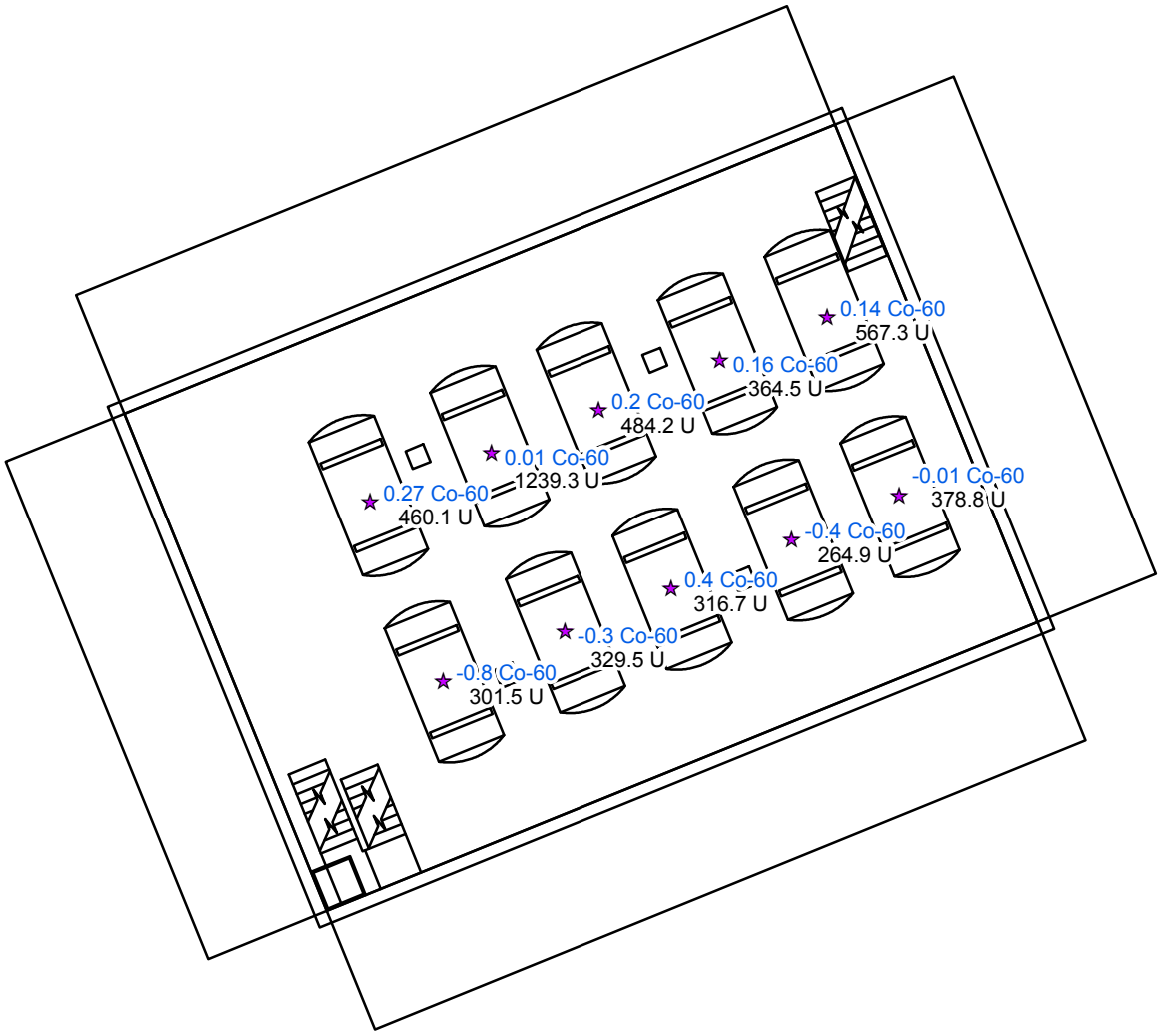

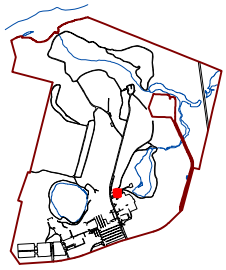

Legend

Co-60 (pCi/g)
Total U (pCi/g)

Paint

Building 6 Basement & Walls

N

0 7.5 15 Feet

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Figure 4-28
Building 6
Basement - Paint Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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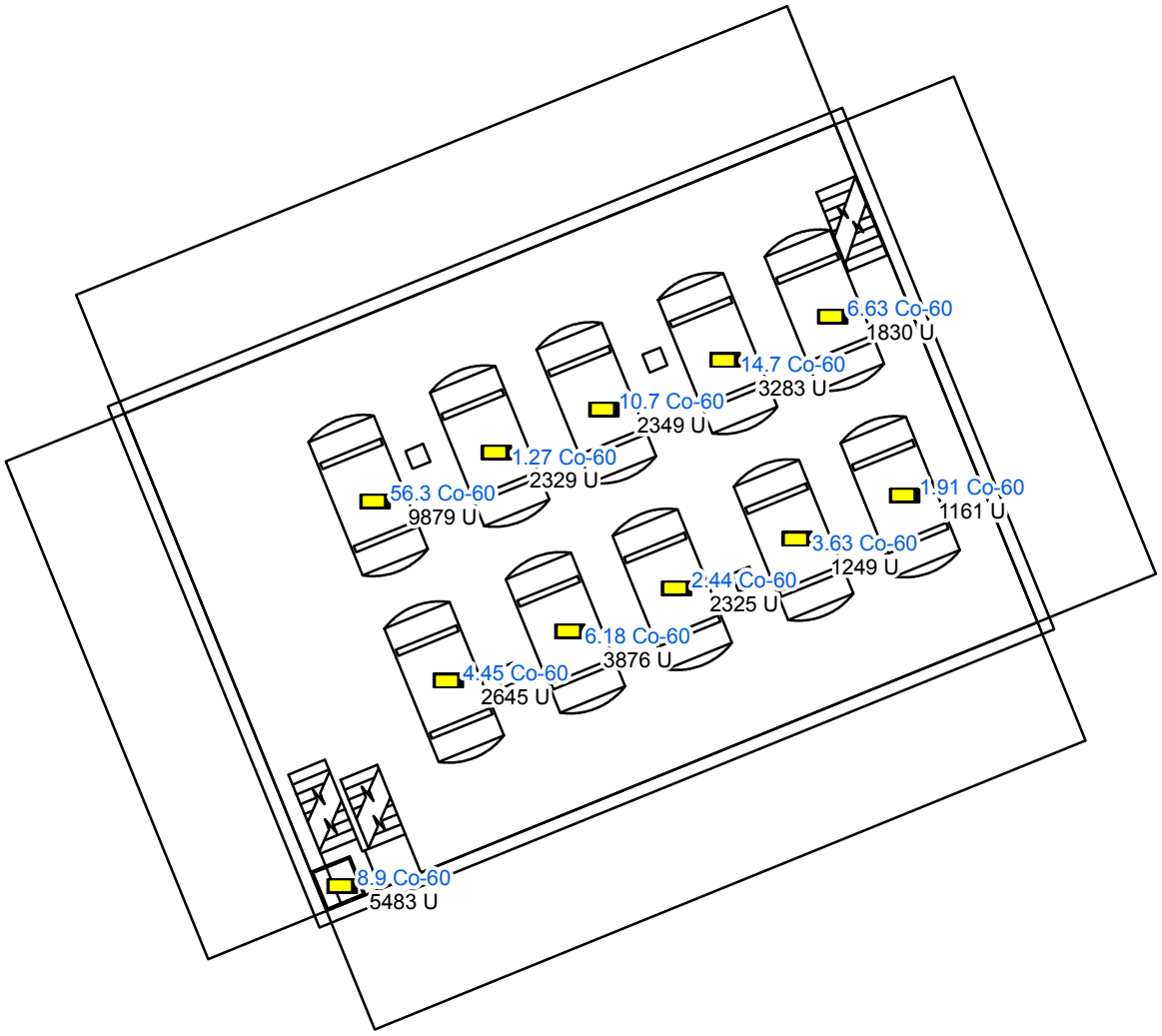

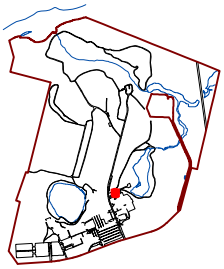

Legend

Co-60 (pCi/g)
Total U (pCi/g)

Tank/Sump Sediment

Building 6 Basement & Walls

N

0 7.5 15 Feet

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Figure 4-29
Building 6
Basement - Tank Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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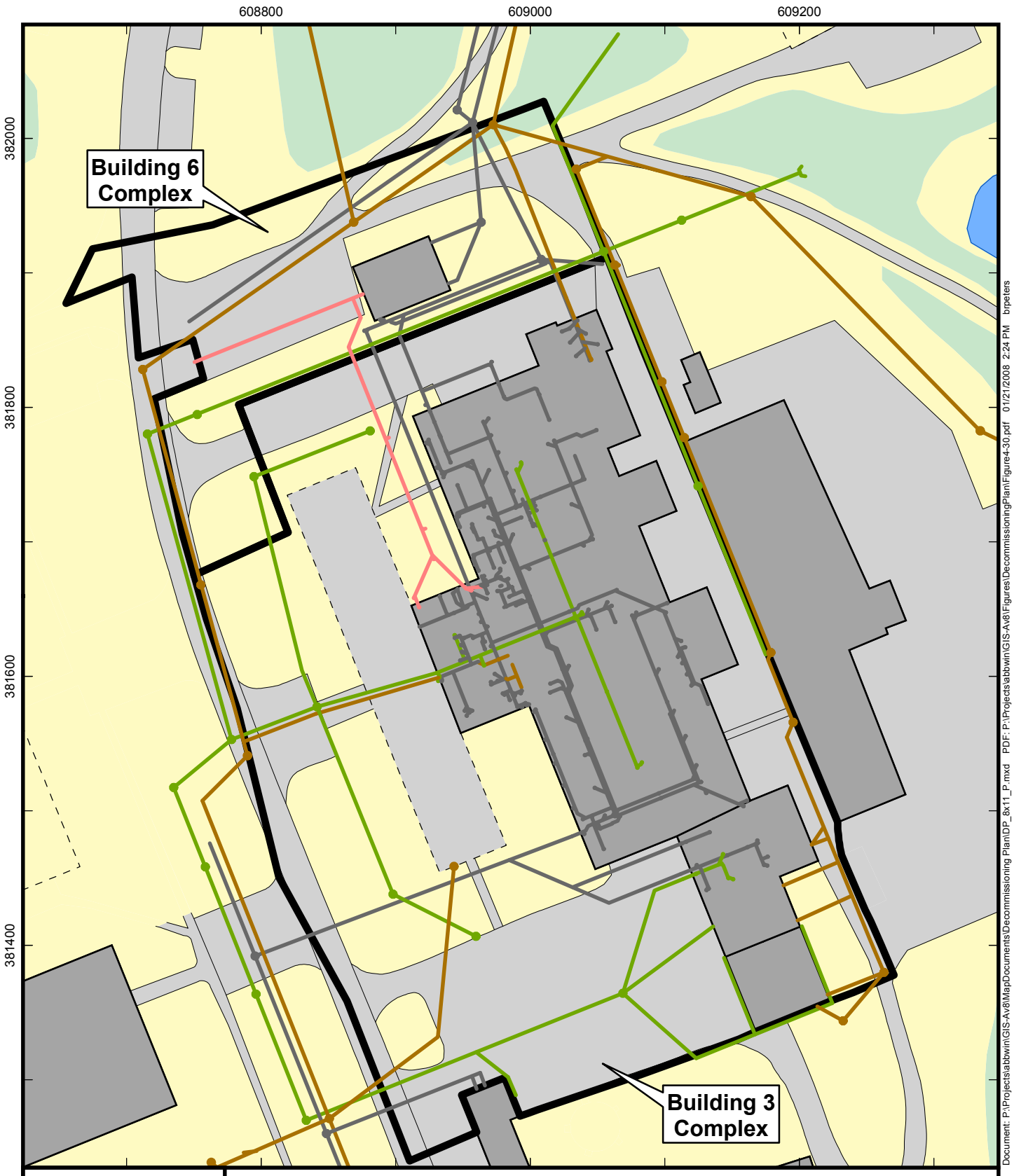

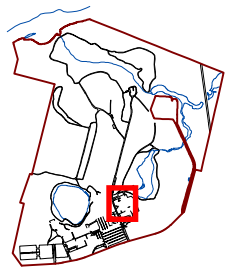

CT State Plane NAD 27 Feet

Legend

- Industrial Waste Line
- Sanitary Waste Line
- Hot Waste Line
- Stormwater Waste Line

N

0 50 100 Feet

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Figure 4-30
Buildings 3 and 6 Complexes
Waste Lines

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

MACTEC

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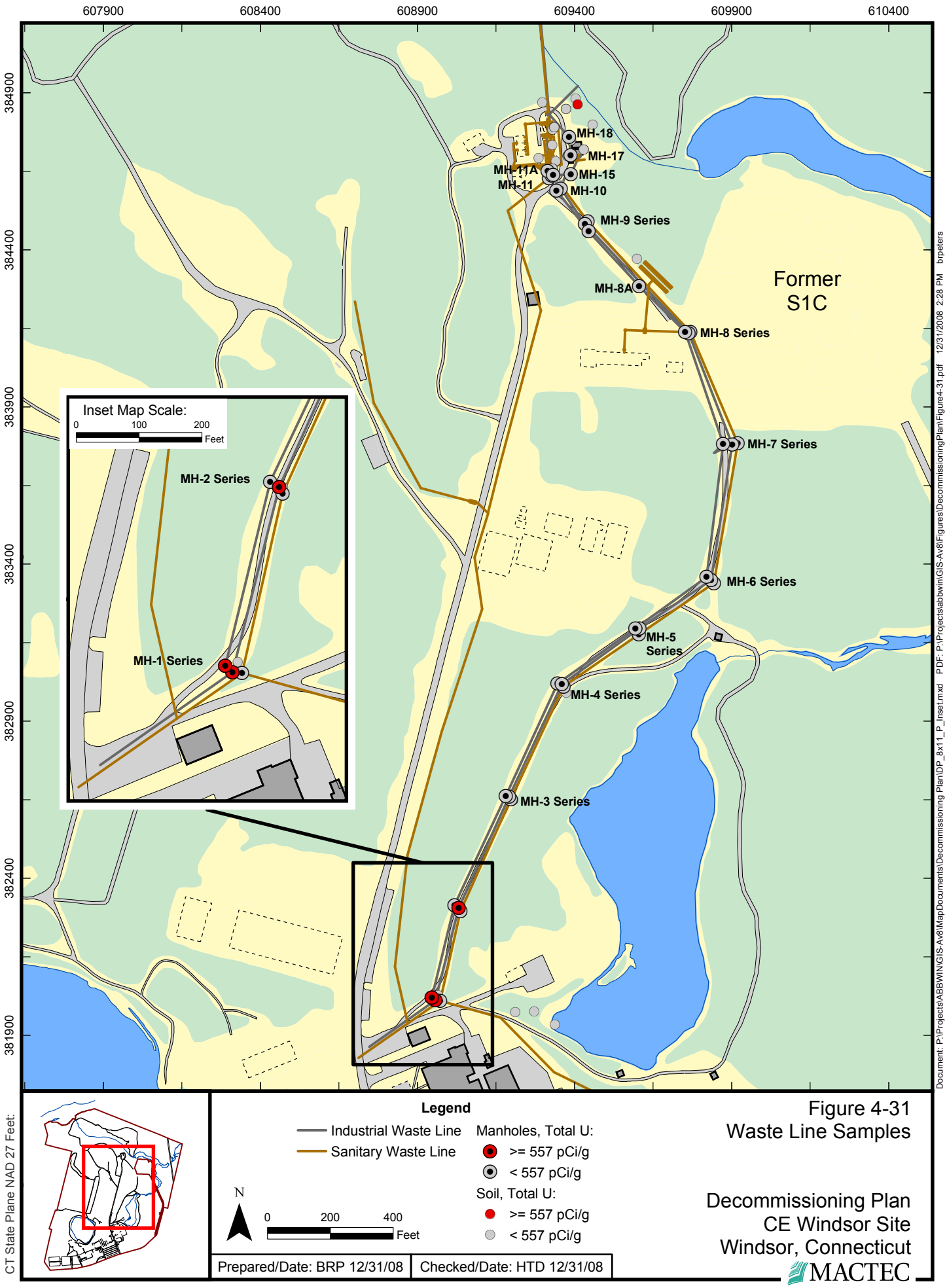

Figure 4-31
Waste Line Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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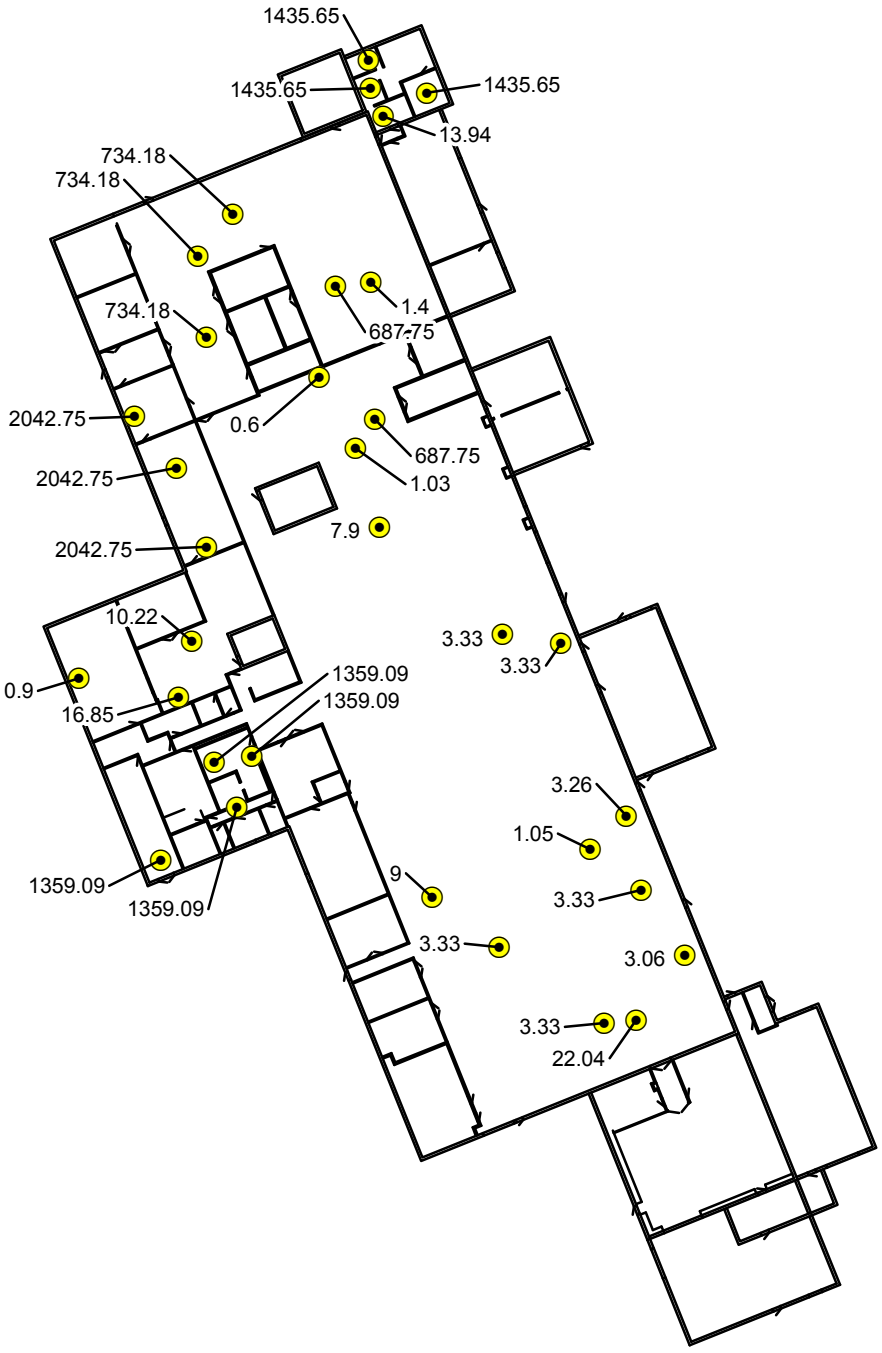

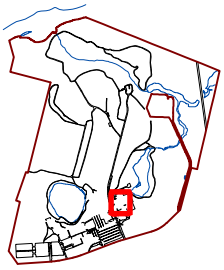

Legend

Total U (pCi/g) — Floor Drain Sediment

Building 3 Floor Plan

N

0 35 70 Feet

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Figure 4-32
Building 3
Floor Drain Sediment Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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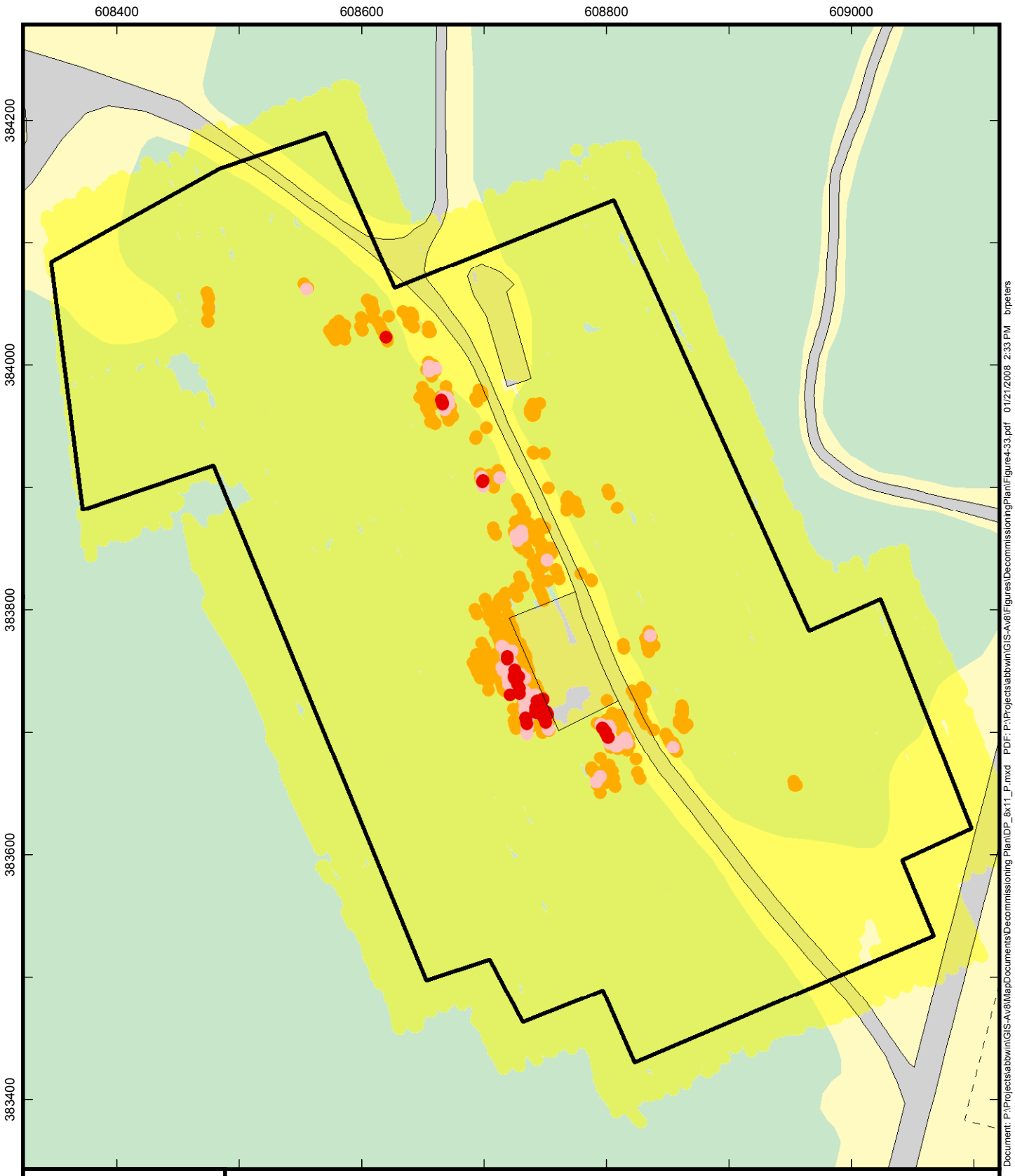

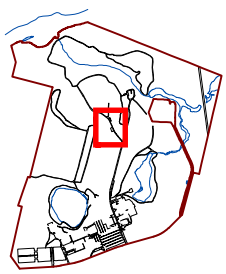

CT State Plane NAD 27 Feet

Legend

Woods Area Gamma Walkover Results (cpm):

- > 100,000
- 50,000 - 100,000
- 20,000 - 50,000
- < 20,000

N

0 55 110 Feet

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Figure 4-33
Woods Area
Gamma Walkover Survey

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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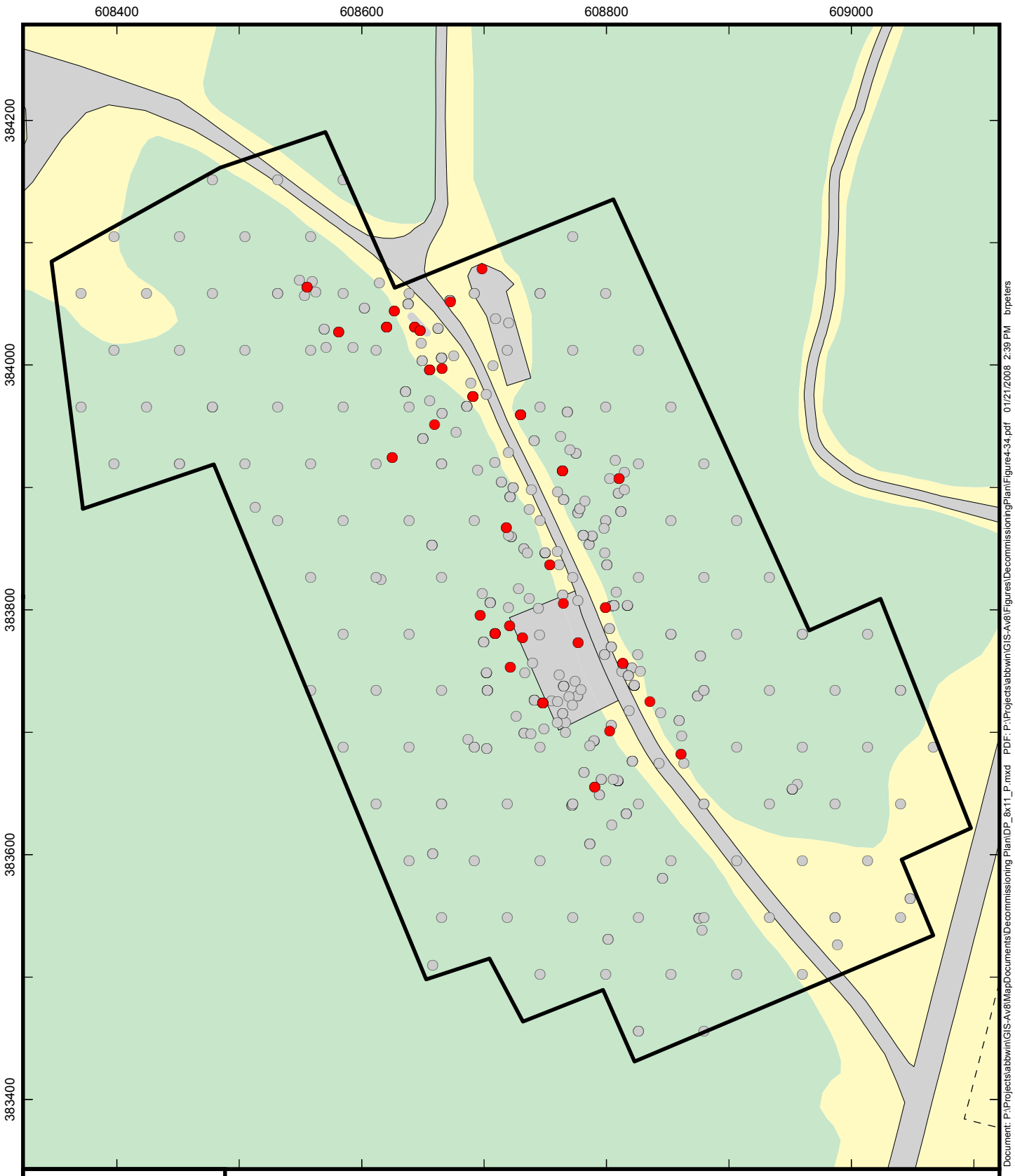

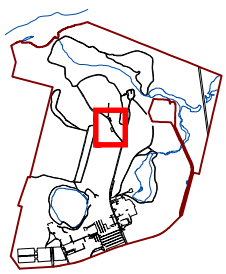

CT State Plane NAD 27 Feet

Legend

Woods Area

Total U:

>= 557 pCi/g

< 557 pCi/g

N

0 55 110 Feet

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Figure 4-34
Woods Area
Soil Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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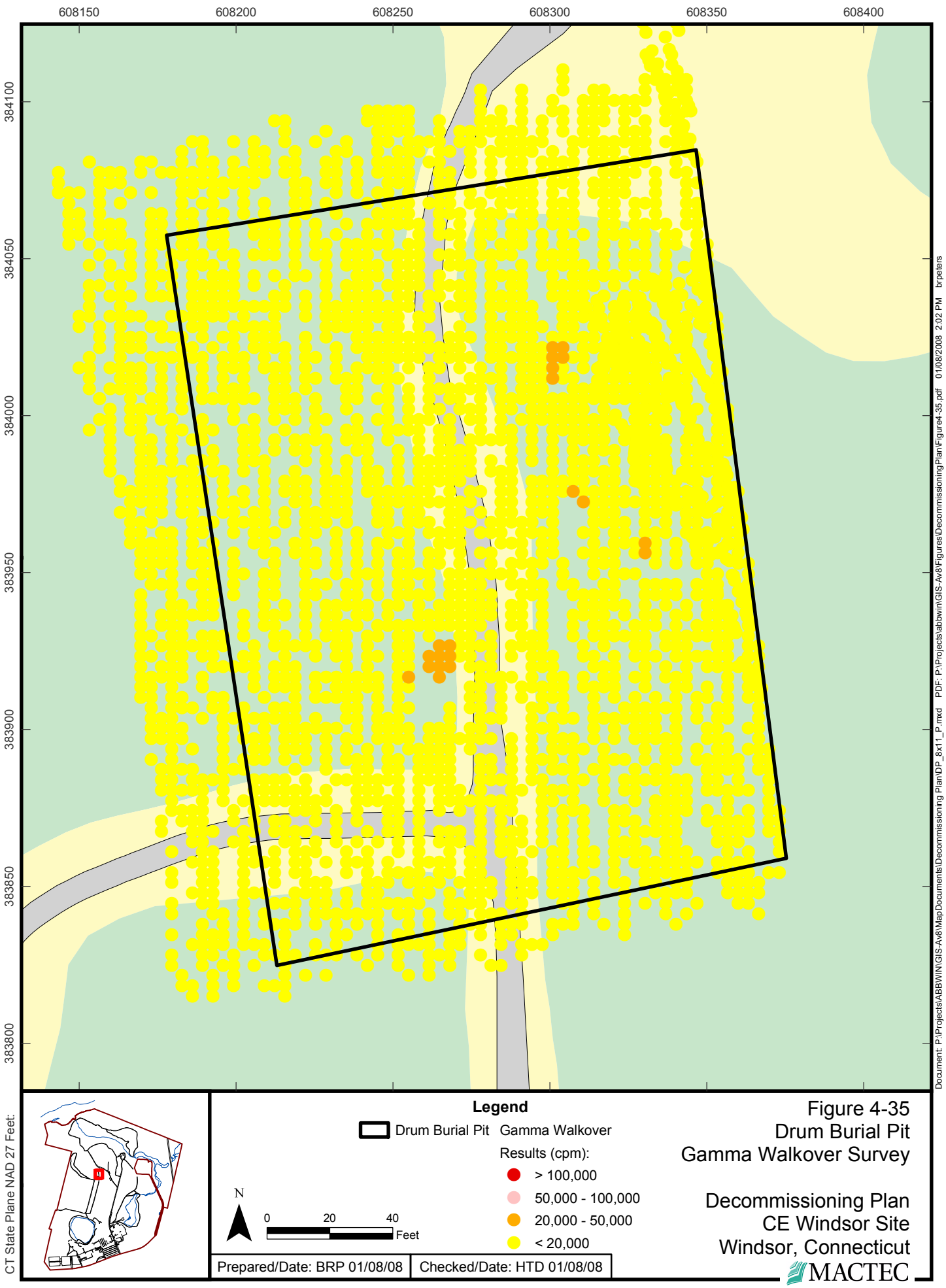
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608200
608250
608300
608350
608400
384100
384050
384000
383950
383900
383850
383800
CT State Plane NAD 27 Feet:
Legend
Drum Burial Pit
Gamma Walkover Results (cpm):
> 100,000
50,000 - 100,000
20,000 - 50,000
< 20,000
N
0
20
40
Feet
Prepared/Date: BRP 01/08/08
Checked/Date: HTD 01/08/08
Figure 4-35
Drum Burial Pit
Gamma Walkover Survey
Decommissioning Plan
CE Windsor Site
Windsor, Connecticut
MACTEC
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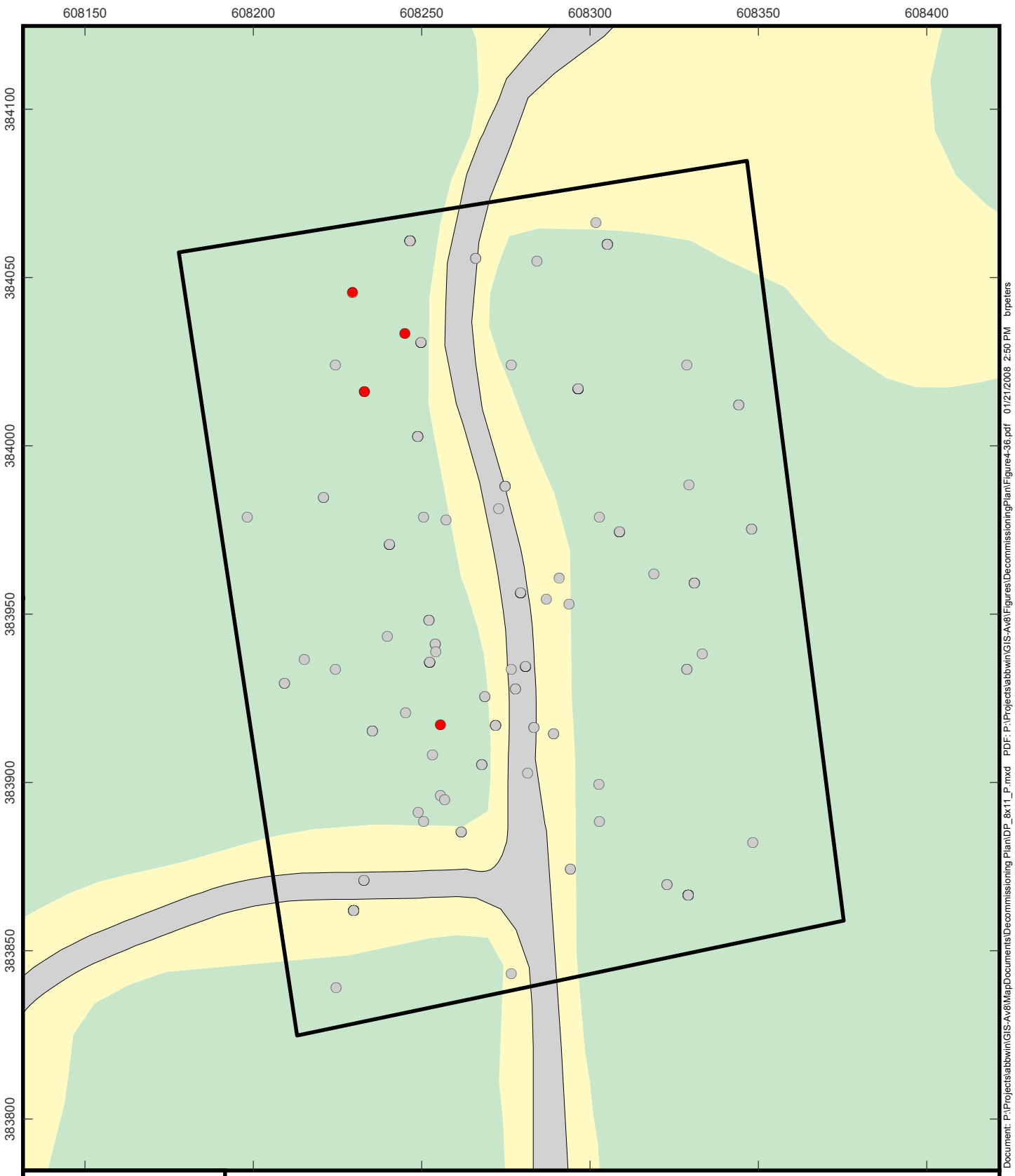

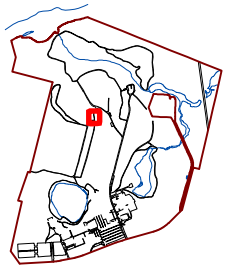

CT State Plane NAD 27 Feet

Legend

Drum Burial Pit

Total U:

- >= 557 pCi/g
- < 557 pCi/g

N

0 20 40 Feet

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Figure 4-36
Drum Burial Pit
Soil Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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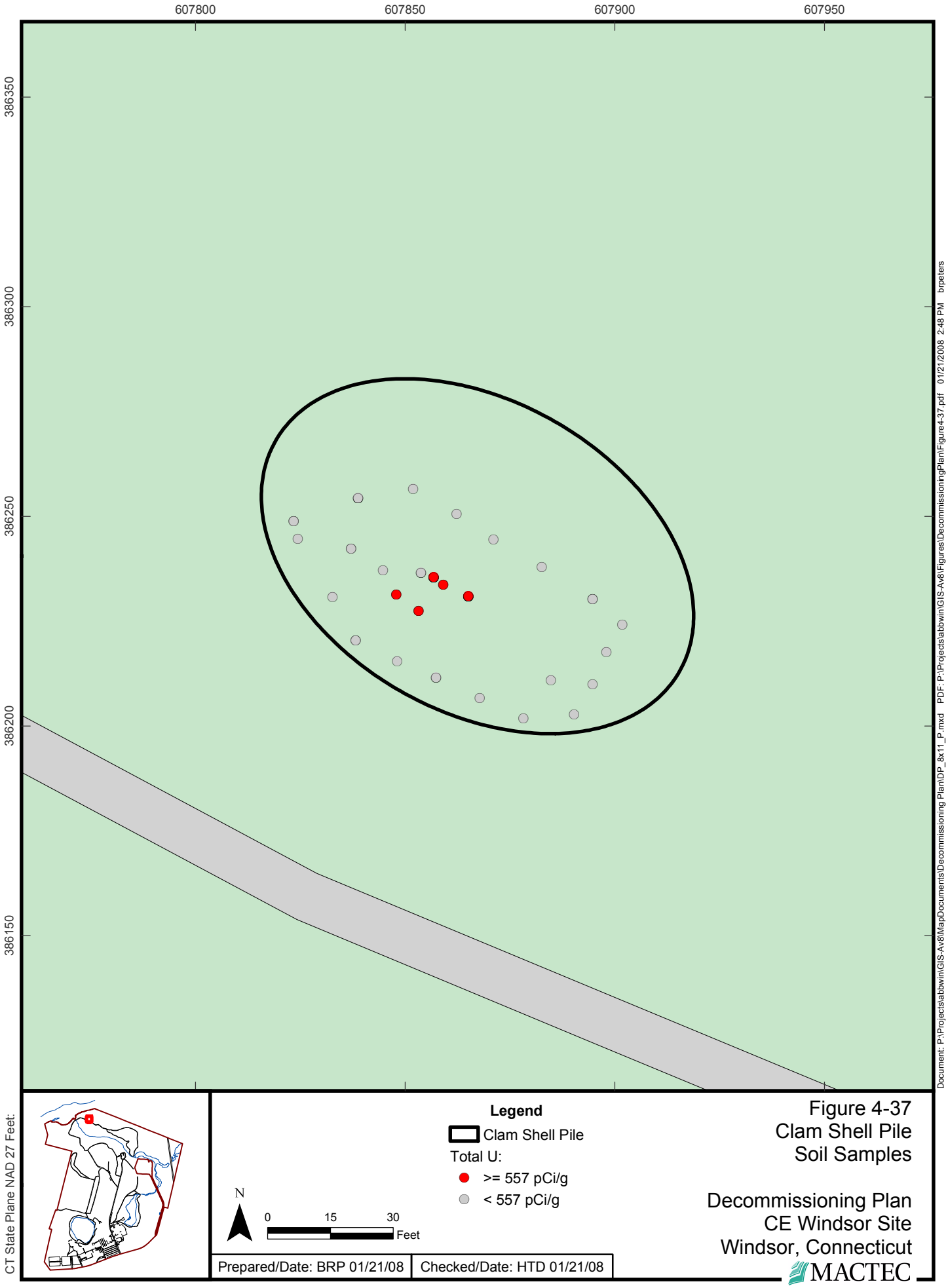
607800
607850
607900
607950
386350
386300
386250
386200
386150
CT State Plane NAD 27 Feet:
Legend
Clam Shell Pile
Total U:
>= 557 pCi/g
< 557 pCi/g
N
0
15
30
Feet
Prepared/Date: BRP 01/21/08
Checked/Date: HTD 01/21/08
Figure 4-37
Clam Shell Pile
Soil Samples
Decommissioning Plan
CE Windsor Site
Windsor, Connecticut
MACTEC
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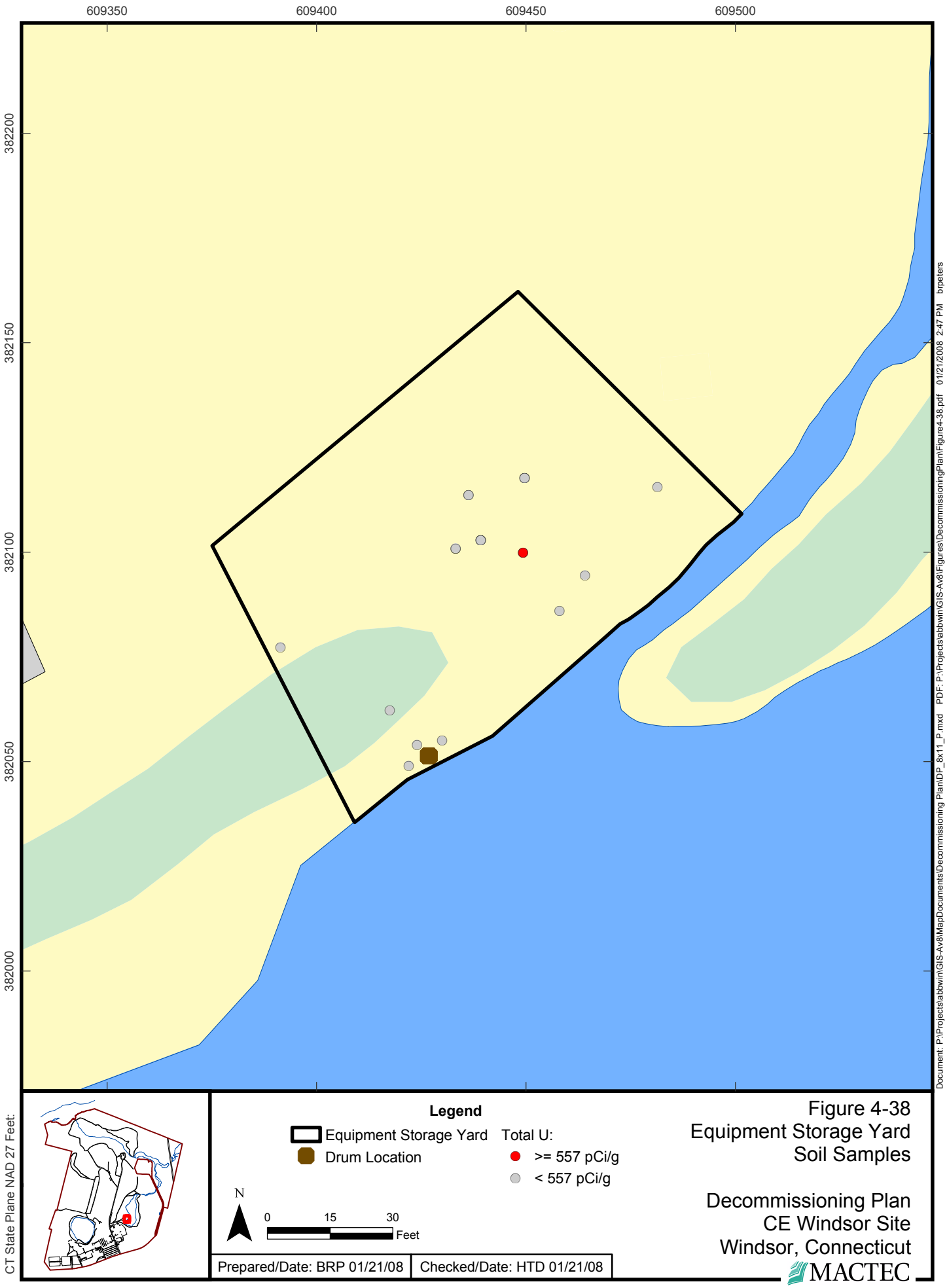
609350
609400
609450
609500
382200
382150
382100
382050
382000
CT State Plane NAD 27 Feet:
Legend
Equipment Storage Yard
Drum Location
Total U:
>= 557 pCi/g
< 557 pCi/g
N
0
15
30
Feet
Prepared/Date: BRP 01/21/08
Checked/Date: HTD 01/21/08
Figure 4-38
Equipment Storage Yard
Soil Samples
Decommissioning Plan
CE Windsor Site
Windsor, Connecticut
MACTEC
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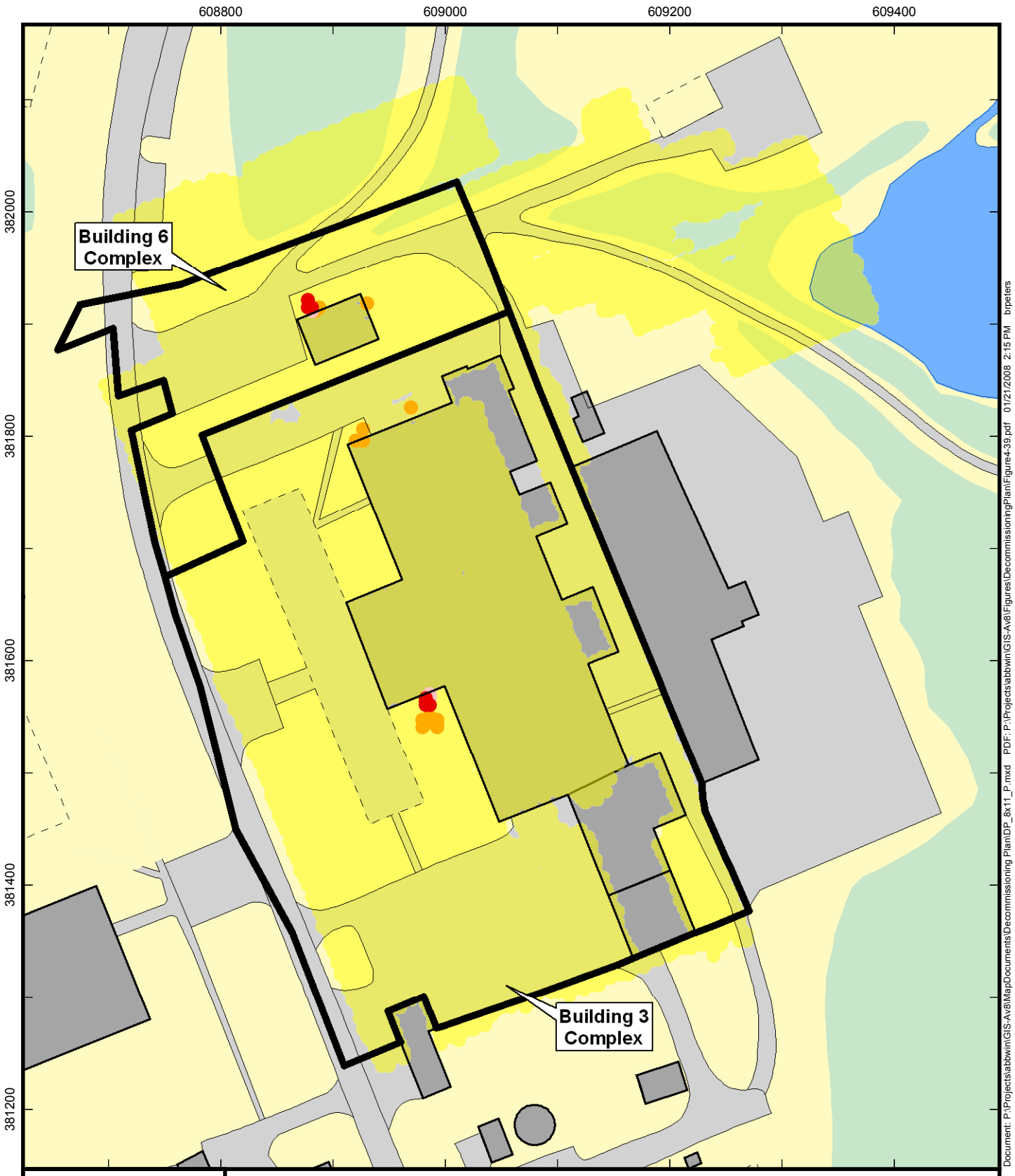
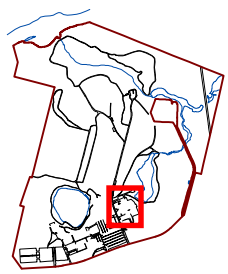


CT State Plane NAD 27 Feet



N

0 60 120 Feet

Legend

Gamma Walkover Results (cpm):

- > 100,000
- 50,000 - 100,000
- 20,000 - 50,000
- < 20,000

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Figure 4-39
Buildings 3 and 6 Complexes
Gamma Walkover Survey

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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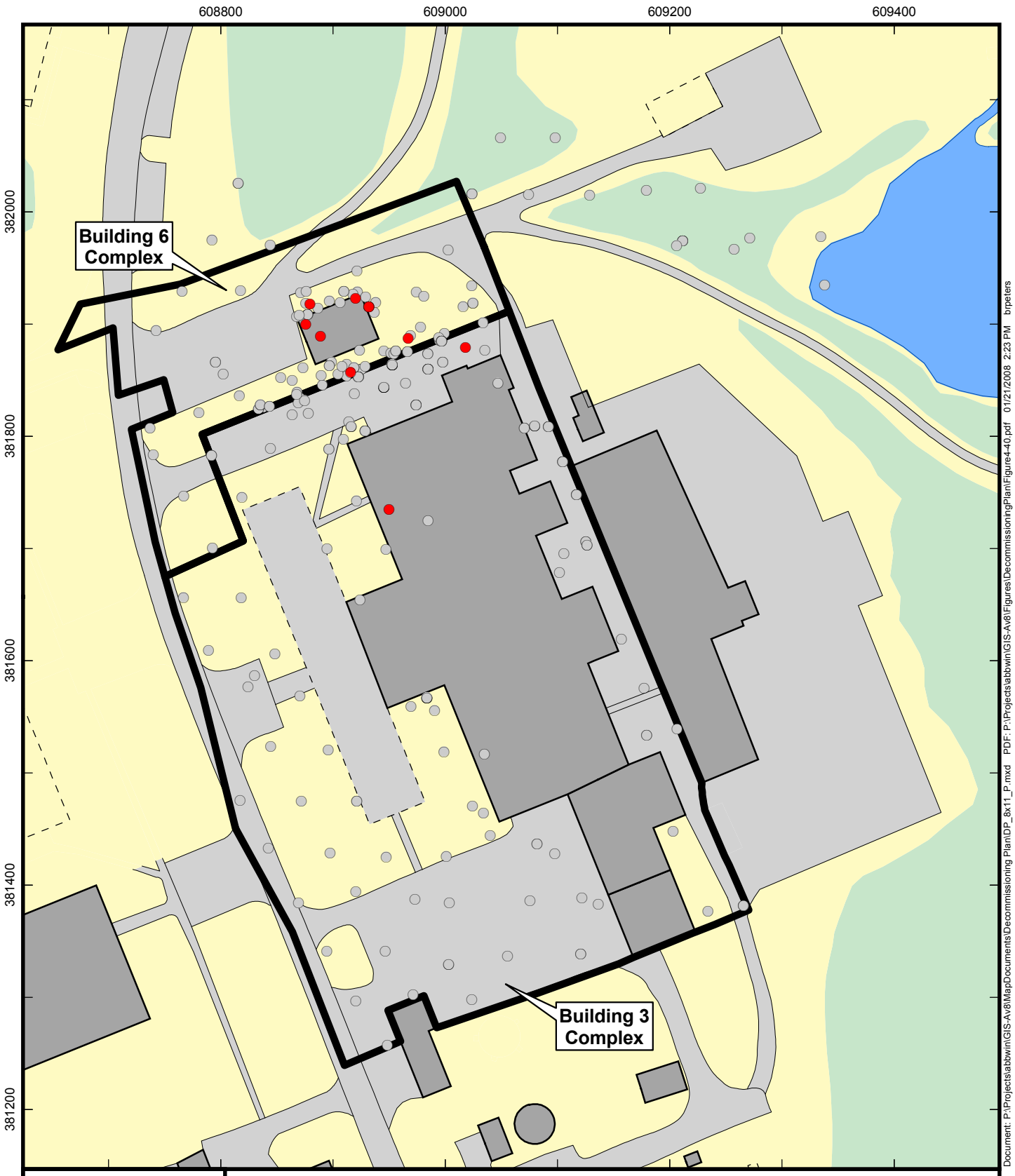
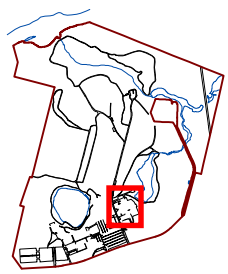


CT State Plane NAD 27 Feet



Legend

Total U:

- >= 557 pCi/g
- < 557 pCi/g

N

0 60 120 Feet

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Figure 4-40
Buildings 3 and 6 Complexes
Soil Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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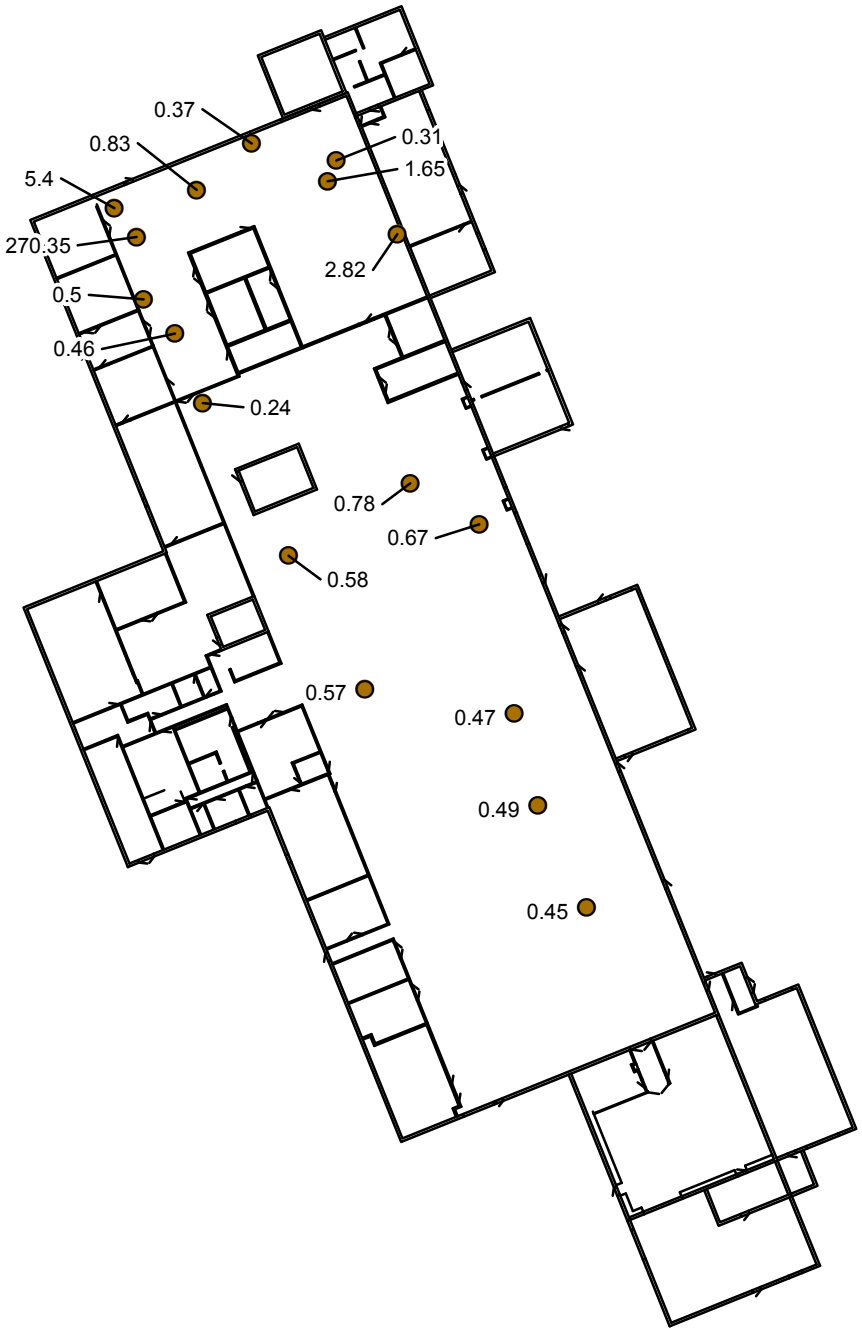

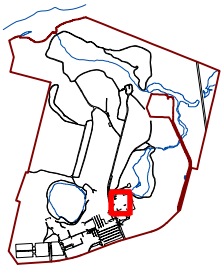

Legend

Total U (pCi/g) ● Soil (Sub-slab)

— Building 3 Floor Plan

N

0 35 70 Feet

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Figure 4-41
Building 3
Sub-Slab Soil Samples

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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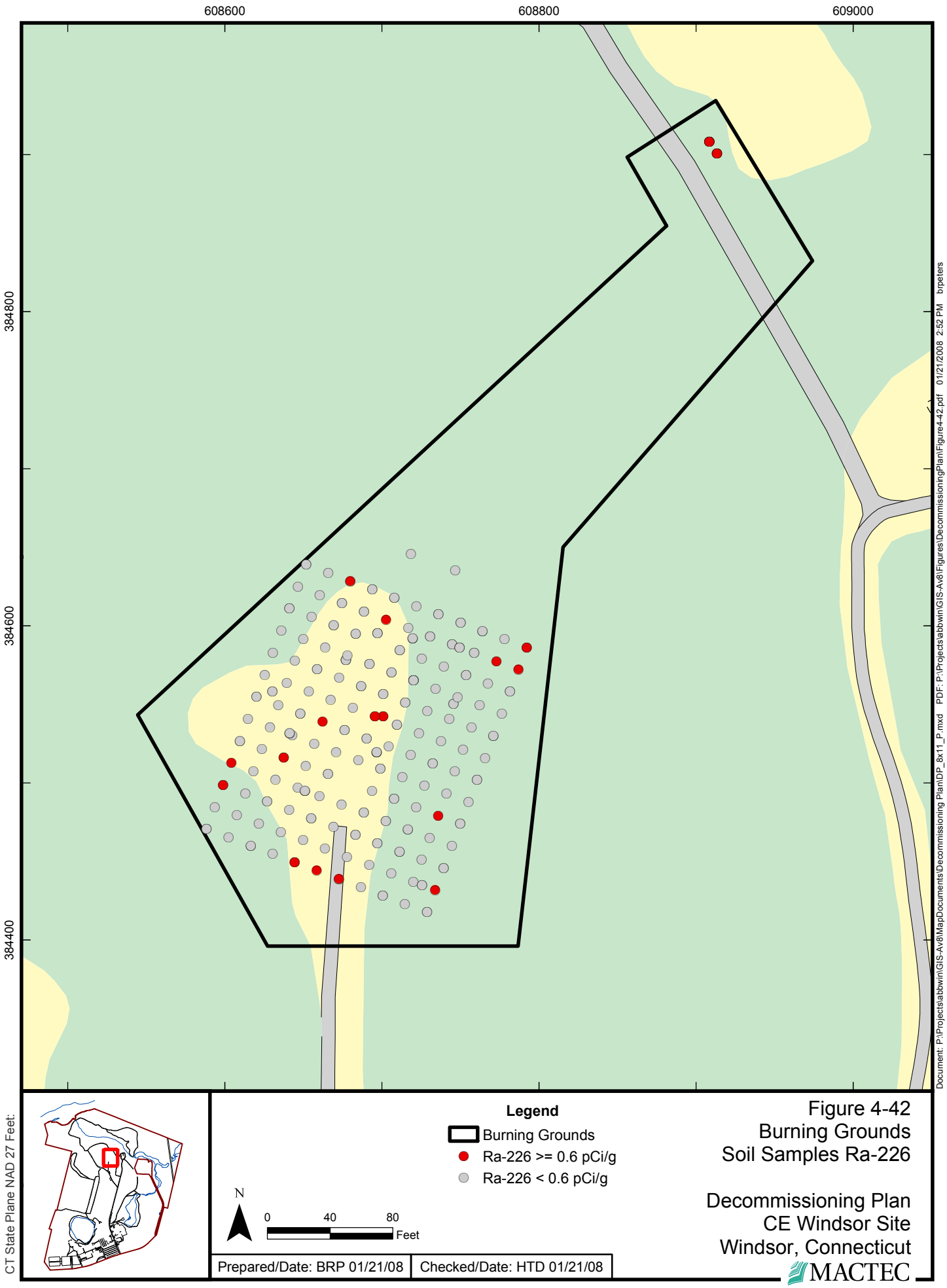
608600
608800
609000
384800
384600
384400
Legend
Burning Grounds
Ra-226 >= 0.6 pCi/g
Ra-226 < 0.6 pCi/g
N
0
40
80
Feet
CT State Plane NAD 27 Feet
Prepared/Date: BRP 01/21/08
Checked/Date: HTD 01/21/08
Figure 4-42
Burning Grounds
Soil Samples Ra-226
Decommissioning Plan
CE Windsor Site
Windsor, Connecticut
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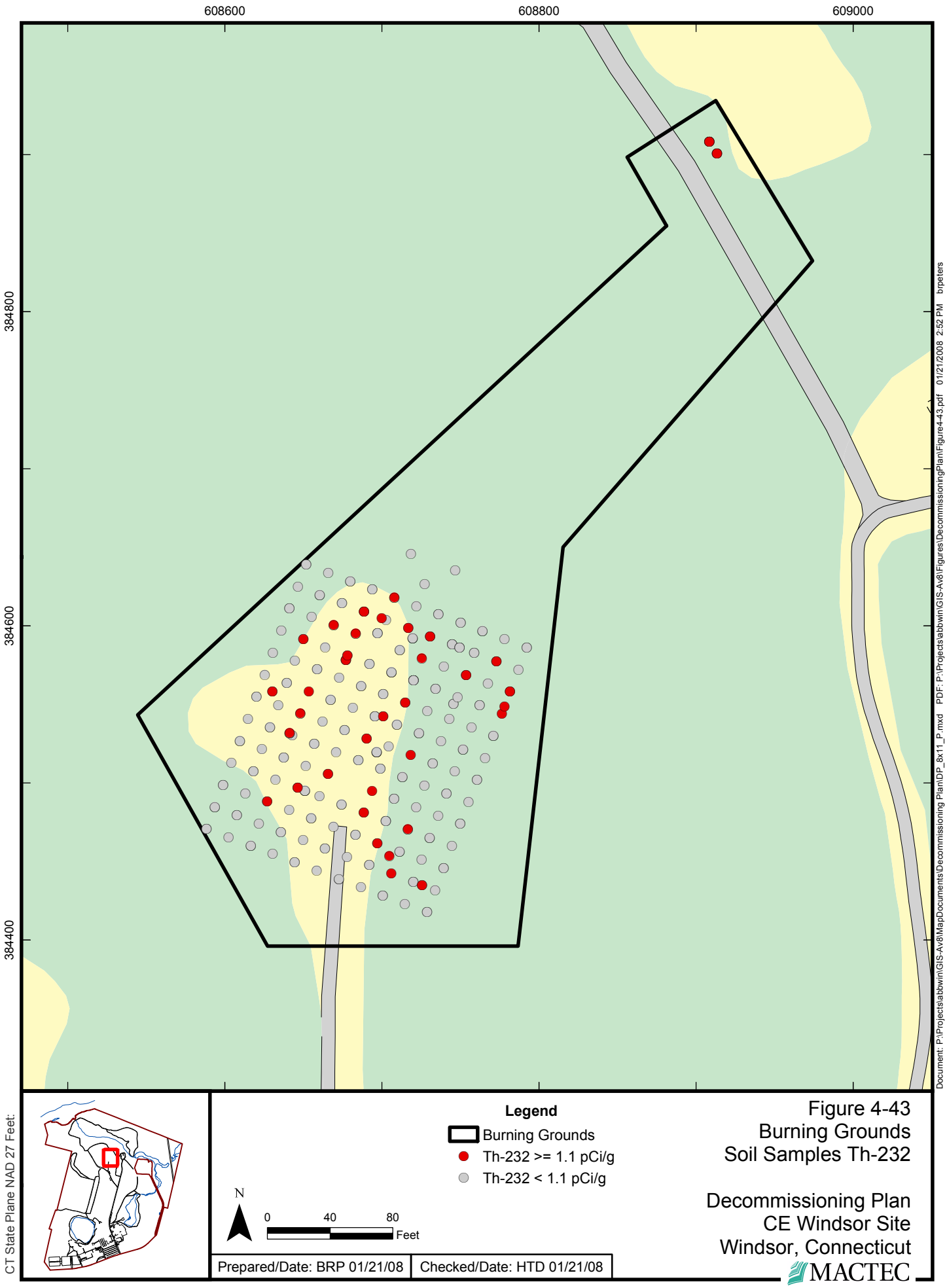
608600
608800
609000
384800
384600
384400
CT State Plane NAD 27 Feet
Legend
Burning Grounds
Th-232 >= 1.1 pCi/g
Th-232 < 1.1 pCi/g
N
0
40
80
Feet
Prepared/Date: BRP 01/21/08
Checked/Date: HTD 01/21/08
Figure 4-43
Burning Grounds
Soil Samples Th-232
Decommissioning Plan
CE Windsor Site
Windsor, Connecticut
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Farmington River
Clamshell Pile
Site Brook
Debris Piles
Burning Grounds
Drum Burial Pit
Woods Area
Pipelines
Goodwin Pond
Former S1C
Small Pond
Great Pond
Equipment Storage Yard Area
Buildings 3 and 6 Areas
GB Area
GA Area
MW-N01
MW-N02
MW-N03S/D
MW-N04S/D
MW-N05
MW-N06/D
MW-N07
MW-N08
MW-N09D
MW-20S
MW-25
MW-26
MW-27
MW-24
MW-23
MW-2601
MW-1222
MW-1225
MW-1221
MW-1220
MW-1106
MW-0103
MW-0102
MW-0105
MW-0106
MW-0118
MW-0145
E-1
MW-0144
MW-0110
MW-W03
MW-W04
MW-0109
MW-2102
WW-1
WW-2
MW-0301
MW-6
MW-12S
MW-2
MW-3
HW
MW-13S
MW-0302
MW-1219
MW-0502
MW-1218
MW-E10DI
MW-E09DI
MW-1217/DD
MW-E08D/DI
MW-1216
MW-E06S
MW-E03
MW-E07D/DI
MW-E05S/DI
MW-E02S/D
MW-E01
MW-1215
MW-1007/DI
MW-1214/DI
MW-1006/DI
MW-1018
MW-1004S/D/DD/DI
MW-1016/DI
MW-1016
MW-1213
MW-1014
MW-1005/D/DI
MW-1813
MW-0905
MW-1603
MW-1203
MW-0906S/D
MW-0904
MW-0907
MW-1212
MW-1210
MW-0801
MW-1211
MW-1810
MW-1807
MW-1811
MW-1806
MW-1805
MW-1804
MW-1808
MW-1809
MW-1812
MW-S02
MW-S01
MW-0607
MW-0603
MW-0610R
MW-0608
MW-1509
MW-1507
MW-0101
MW-W01
MW-W02S/D
MW-2402
MW-2401
1
1A
2
2M
3
3A
3B
3C
4
4A
5
6
6A
7
7A
8A
9
11
12
14
14A
15
16
17
18
19
20
21
22
23
24
HW

Legend

- MW-1507 — Existing Wells for Radiological Groundwater Monitoring
- Not Sampled
- Remaining Remediation Areas
- Groundwater Flow Direction
- Property Outline
- Water
- Roads
- Index Contour (10')
- Intermediate Contour (2')
- Forest
- Open
- Water
- Road
- Berm
- Existing Building
- Demolished Building

N

0 125 250 Feet

Prepared/Date: BRP 12/31/08 | Checked/Date: HTD 12/31/08

Figure 4-44
Radiological Groundwater Monitoring Program

Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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607000 607200 607400 607600 607800 608000 608200 608400 608600 608800 609000 609200 609400 609600 609800 610000

386200 386000 385800 385600 385400 385200 385000 384800 384600

0 40 80 Feet

CT State Plane NAD 27 Feet:

N

0 100 200 Feet

Prepared/Date: BRP 02/23/10 | Checked/Date: HTD 02/23/10

Legend

Site Brook and Debris Piles

Gamma Walkover Results (cpm):

- > 20,000
- 15,000 - 20,000
- 10,000 - 15,000
- < 10,000

Figure 4-45
Site Brook and Debris Piles - Gamma Walkover Survey
Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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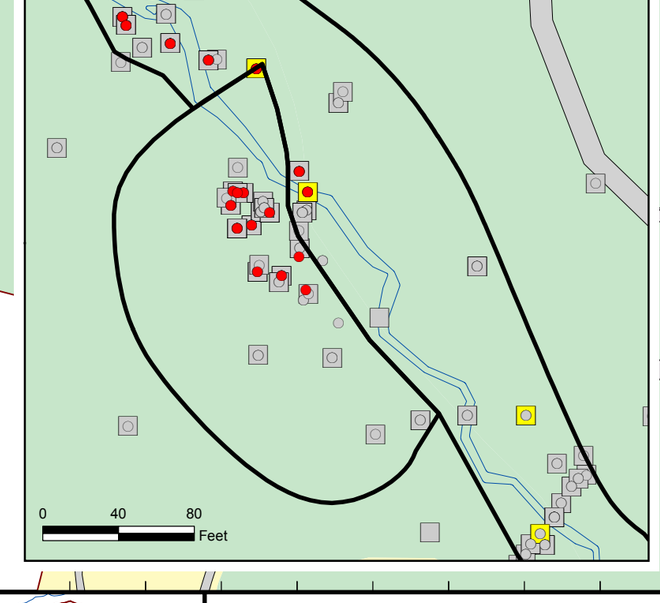
607000 607200 607400 607600 607800 608000 608200 608400 608600 608800 609000 609200 609400 609600 609800 610000

386200 386000 385800 385600 385400 385200 385000 384800 384600

0 40 80 Feet



N

0 100 200 Feet

CT State Plane NAD 27 Feet:

Legend

Site Brook and Debris Piles

Total U:
- >= 557 pCi/g
- < 557 pCi/g

Co-60:
- >= 5 pCi/g
- < 5 pCi/g

Prepared/Date: BRP 02/23/10 | Checked/Date: HTD 02/23/10

Figure 4-46
Site Brook and Debris Piles - Soil Samples
Decommissioning Plan
CE Windsor Site
Windsor, Connecticut

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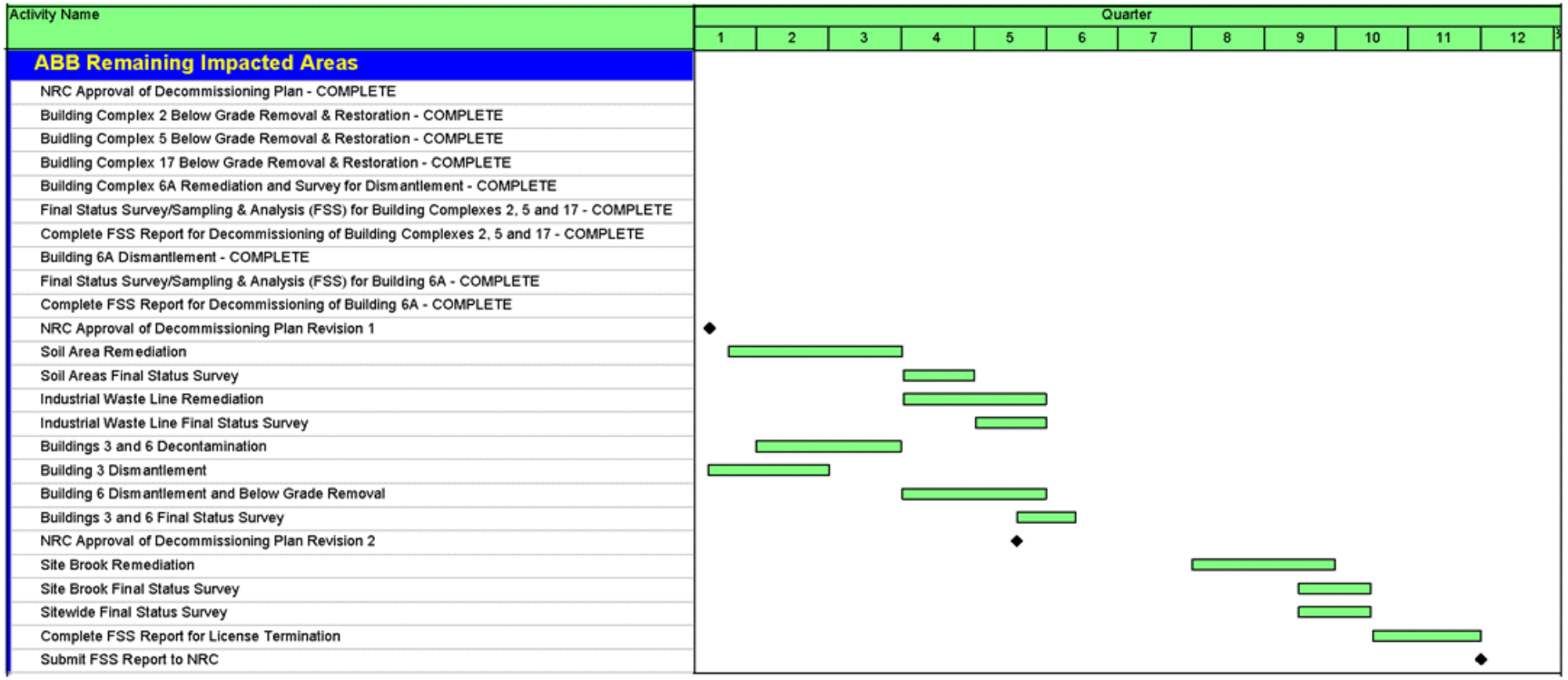
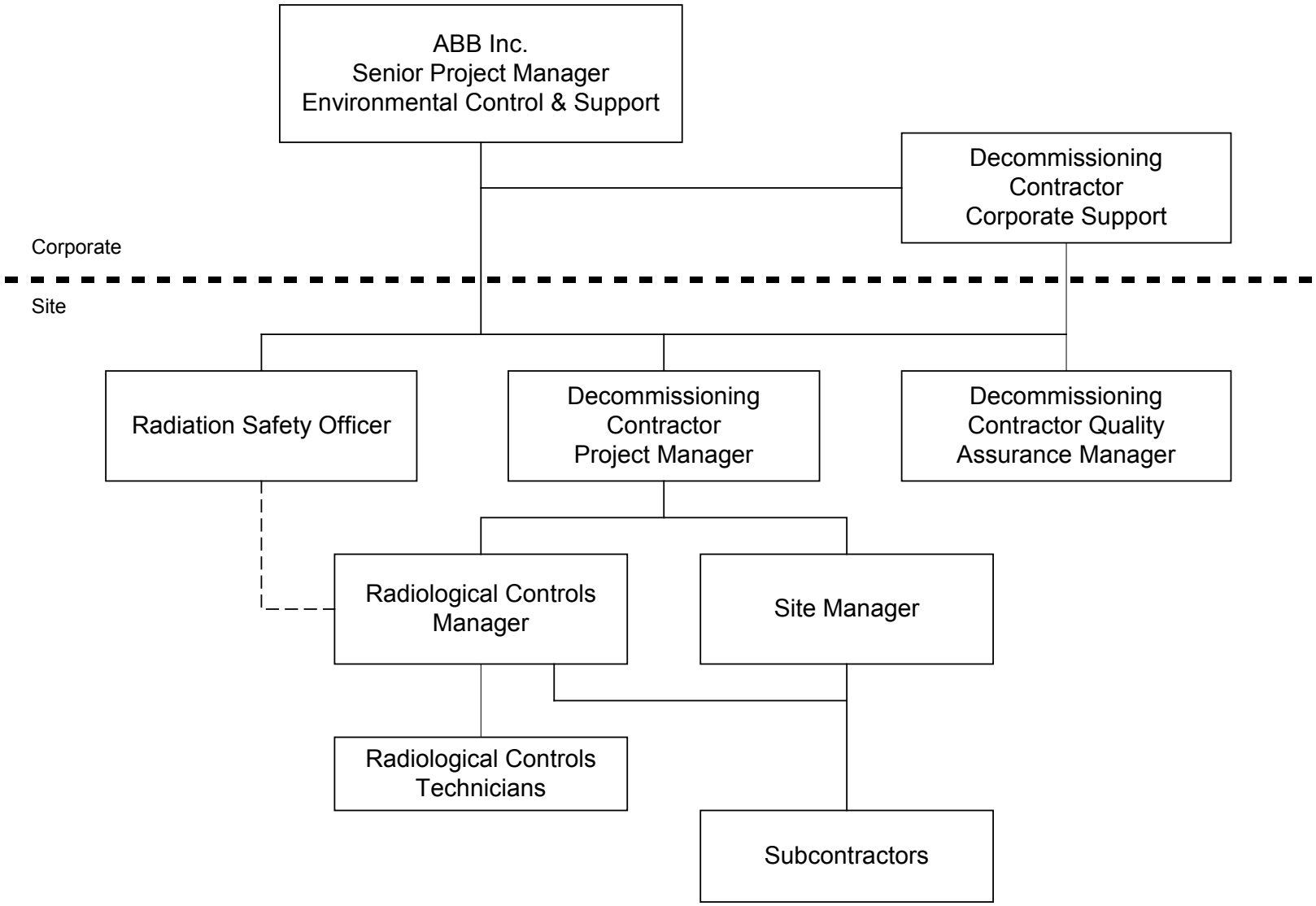
Figure 8-1
Conceptual Decommissioning Schedule



Prepared/Date: RMA 02/23/10
Checked/Date: HTD 02/23/10

Figure 9-1
Decommissioning Organization Chart



Prepared/Date: HTD 01/24/08
Checked/Date: JJD 01/24/08