

US EPA ARCHIVE DOCUMENT



INTERNATIONAL
TECHNOLOGY
CORPORATION

LETTER OF TRANSMITTAL

DATE: 3/17/2000
Via: Fedex

TO: USEPA Region I
ADDRESS: 1 Congress Street
CITY: Boston, MA
ATTENTION: Ted Bazukas

Refer: _____

We are sending you: ☒ Herewith ☐ Under separate cover ☐ Prints
 ☐ Tracings ☐ Specifications ☐ Other

Final maps for the Centredale Project.

These are: (As checked below)

☐ For your approval ☐ For use on job
☐ Per your request ☐ For your files
☐ For review and comment

Remarks: You will be receiving two packages, one
with 11x17 figures to be inserted into report, and a
tube with D-size drawings

If enclosures received are not as listed above, please notify at once.

copy: _____

Very truly yours,
IT Corporation

By

SITE MAP

(February 1999 and June to November 1999)

DRAWING SITEPLAN3.dwg
NUMBER

APPROVED BY

CHECKED BY

DRAWN BY

OFFICE

IMAGE X REF



LEGEND: ● SOIL BORING LOCATION EX. CUS-118 - SOIL BORING IDENTIFICATION □ BUILDING OUTLINE — WATERWAY OR POND — ROADWAY EDGE — FENCE	
SCALE 0 125 250 375 FEET	
IT CORPORATION	880 CLV STREET HOPKINTON, MASSACHUSETTS (508) 435-9561
FIGURE 1 SITE MAP (February 1999 and June to November 1999) CENTREDALE MANOR RESTORATION PROJECT NORTH PROVIDENCE, RHODE ISLAND	

Volatile Organic Compounds Exceeding Rhode Island Residential Standards (June to November 1999)

DRAWING NUMBER VOC_R12.dwg
APPROVED BY
CHECKED BY
DRAWN BY
OFFICE NO./HOPK
X-REF
MAINT

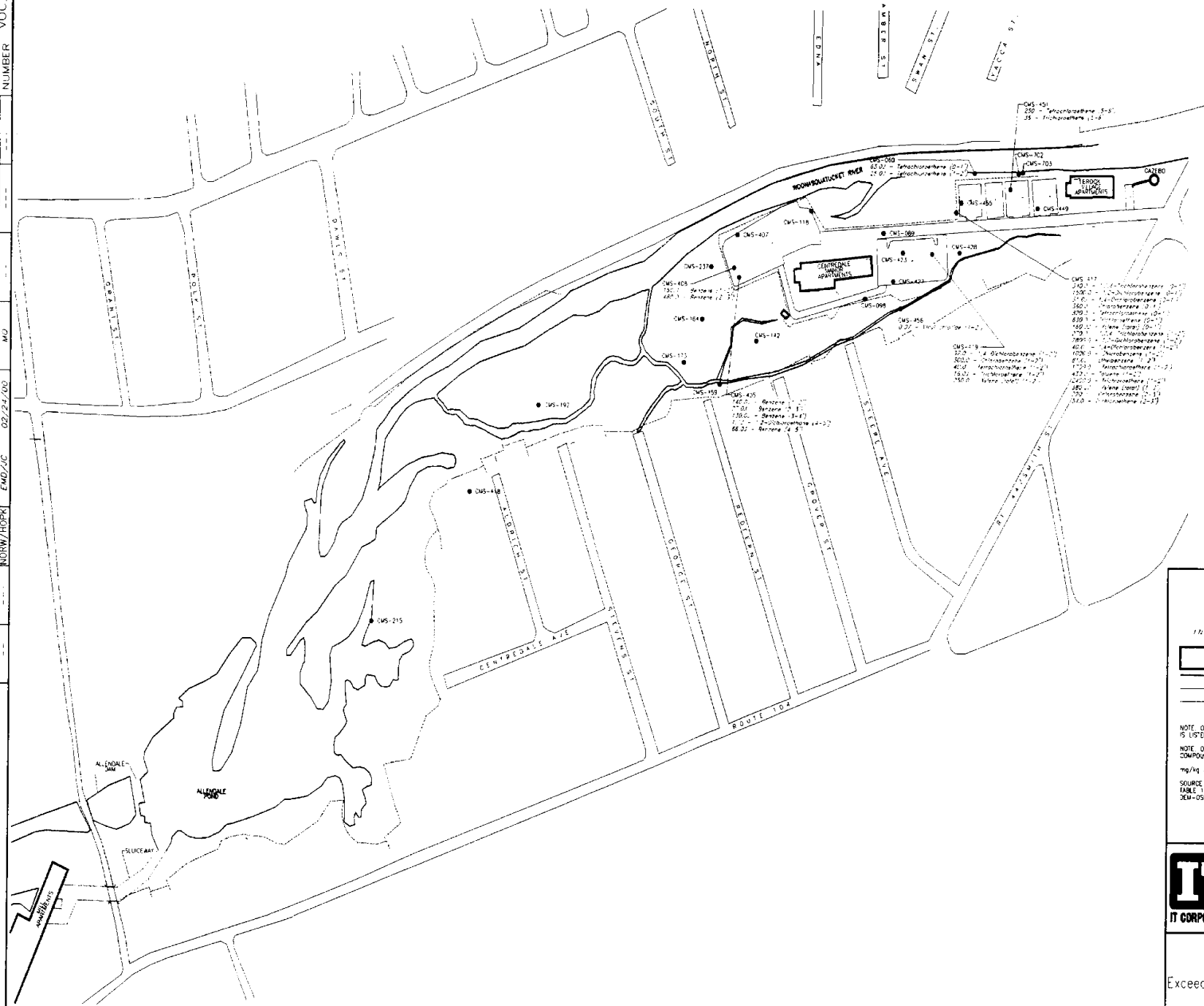
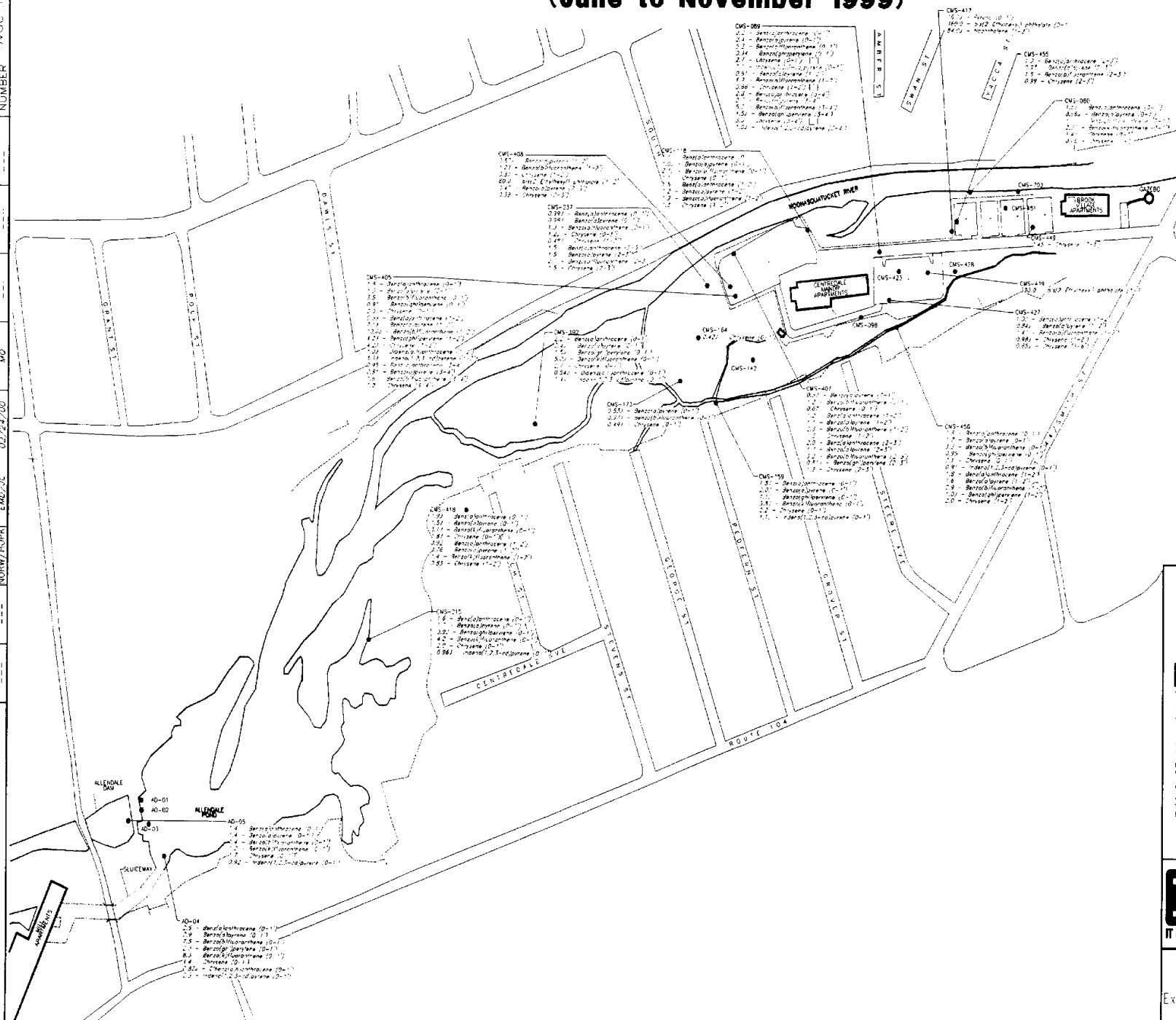


FIGURE 2
Volatile Organic Compounds
Exceeding Rhode Island Residential Standards
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

Semi Volatile Organic Compounds Exceeding Rhode Island Residential Standards (June to November 1999)

IMAGE X-REF OFFICE DRAWN BY CHECKED BY APPROVED BY
EMC/JC 02/24/00 MO
DRAWING NUMBER SVOC RI2.dwg



LEGEND

- SOIL BORING LOCATION
- EX: CMS-118 = SOIL BORING IDENTIFICATION
- 1.1 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE
- 1.2 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE
- 1.3 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE
- 1.4 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE
- 1.5 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE
- 1.6 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE
- 1.7 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE
- 1.8 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE
- 1.9 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE
- 2.0 = Benzene (0-1) - SAMPLE RESIST AND COMPOUND W mg/L - SAMPLE DEPTH RANGE

BUILDING OUTLINE
 WATERWAY OR POND
 ROADWAY EDGE
 FENCE

NOTE: ONLY THE MAXIMUM CONCENTRATION FOR EACH COMPOUND EXCEEDANCE IS LISTED FOR EACH BORING LOCATION.

NOTE: ONLY BORING LOCATIONS SAMPLED FOR SEMI VOLATILE ORGANIC COMPOUNDS ARE SHOWN.

mg/kg = PARTS PER MILLION

SOURCE FOR RHODE ISLAND STANDARDS:
TABLE 1. DIRECT EXPOSURE CRITERIA, REMEDIATION REGULATIONS
DEM-DSR-01-93, 31 MARCH 1993, AMENDED AUGUST 1999

SCALE
0 125 250 375 FEET

ITT CORPORATION
 88C ELM STREET
 HOPKINTON, MASSACHUSETTS
 (508) 435-9561

FIGURE 3
 Semi Volatile Organic Compounds
 Exceeding Rhode Island Residential Standards
 (June to November 1999)
 CENTREDALE MANOR RESTORATION PROJECT
 NORTH PROVIDENCE, RHODE ISLAND

Total VOC Results (June to November 1999)

DRAWING NUMBER
TVOC_R1/2.dwg

APPROVED BY

CHECKED BY

DRAWN BY
END/SC

IMAGE X-REF OFFICE
NORTH/NOVA

0 100 200 300 400 500
METERS



LEGEND:

- SOIL BORING LOCATION
- EX: CWS-118 - SOIL BORING IDENTIFICATION
- 80 - (0.0-1.0) - SAMPLE RESULT AND SAMPLED VOLUME (mg/kg) - SAMPLE DEPTH RANGE
- 2.00 - (1.0-2.0) - SAMPLE RESULT AND SAMPLED VOLUME (mg/kg) - SAMPLE DEPTH RANGE
- 80 - (2.0-3.0) - SAMPLE RESULT AND SAMPLED VOLUME (mg/kg) - SAMPLE DEPTH RANGE
- 80 - (3.0-4.0) - SAMPLE RESULT AND SAMPLED VOLUME (mg/kg) - SAMPLE DEPTH RANGE
- 80 - (4.0-5.0) - SAMPLE RESULT AND SAMPLED VOLUME (mg/kg) - SAMPLE DEPTH RANGE

BUILDING OUTLINE
 WATERWAY OR POND
 ROADWAY EDGE
 FENCE

NOTE: ONLY THE MAXIMUM CONCENTRATION FOR EACH COMPOUND EXCEEDANCE IS LISTED FOR EACH BORING LOCATION.

NOTE: ONLY BORING LOCATIONS SAMPLED FOR VOLATILE ORGANIC COMPOUNDS ARE SHOWN.

mg/kg = PARTS PER MILLION

SCALE

0 125 250 375 FEET

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FIGURE 5

Total VOC Results
(June to November 1999)

CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

Total SVOC Results (June to November 1999)

DRAWING NUMBER TSVOC R12.dwg

CHECKED BY APPROVED BY

DRAWN BY 02/24/00

OFFICE NORTH/100%

IMAGE X-REF



LEGEND:

- SOIL BORING LOCATION
- EX. CWS-118 - SOIL BORING IDENTIFICATION
- 11.0 (10-17) - SAMPLE RESULT AND COMPOUND W/118 - SAMPLE DEPTH RANGE
- 20.0 (10-17) - SAMPLE RESULT AND COMPOUND W/118 - SAMPLE DEPTH RANGE
- 4.0 (10-17) - SAMPLE RESULT AND COMPOUND W/118 - SAMPLE DEPTH RANGE
- 2.0 (10-17) - SAMPLE RESULT AND COMPOUND W/118 - SAMPLE DEPTH RANGE
- 0.0 (10-17) - SAMPLE RESULT AND COMPOUND W/118 - SAMPLE DEPTH RANGE

- BUILDING OUTLINE
- ▭ WATERWAY OR POND
- ROADWAY EDGE
- FENCE

NOTE: ONLY THE MAXIMUM CONCENTRATION FOR EACH COMPOUND EXCEEDANCE IS LISTED FOR EACH BORING LOCATION.

NOTE: ONLY BORING LOCATIONS SAMPLED FOR SEMI VOLATILE ORGANIC COMPOUNDS ARE SHOWN.

mg/kg = PARTS PER MILLION

SCALE
0 125 250 375 FEET



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FIGURE 6

Total SVOC Results
(June to November 1999)

CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

PCB Concentration Distribution in Soil (0-1 feet below ground surface) (June to November 1999)

DRAWING NUMBER
PCB_GEOSoa.dwg

APPROVED BY

CHECKED BY

DRAWN BY

OFFICE

IMAGE

X-REF

NO

02/24/00

EMD/AC

NO

02/24/00

EMD/AC

NO

02/24/00

EMD/AC

NO

02/24/00

EMD/AC

NO

02/24/00

EMD/AC

NO

02/24/00

EMD/AC

NO

02/24/00

EMD/AC

NO

02/24/00

EMD/AC

NO

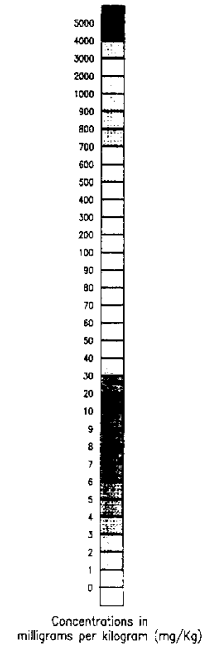
02/24/00

EMD/AC

NO

02/24/00

EMD/AC

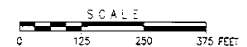


LEGEND:

- SOIL BORING LOCATION
- - SAMPLE RESULT in mg/kg

- BUILDING OUTLINE
- FENCE

NOTE: ONLY THE MAXIMUM CONCENTRATION DETECTED IS LISTED FOR EACH BORING LOCATION.
NOTE: ONLY BORING LOCATIONS SAMPLED FOR PCBs ARE SHOWN.
mg/kg = PARTS PER MILLION
BD. = BELOW DETECTION LIMIT



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FIGURE 7a

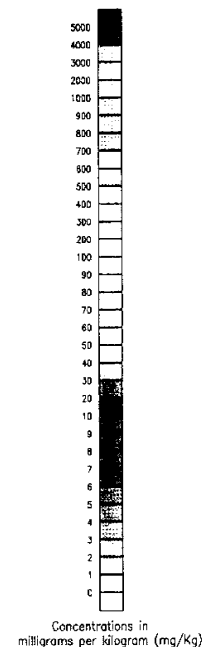
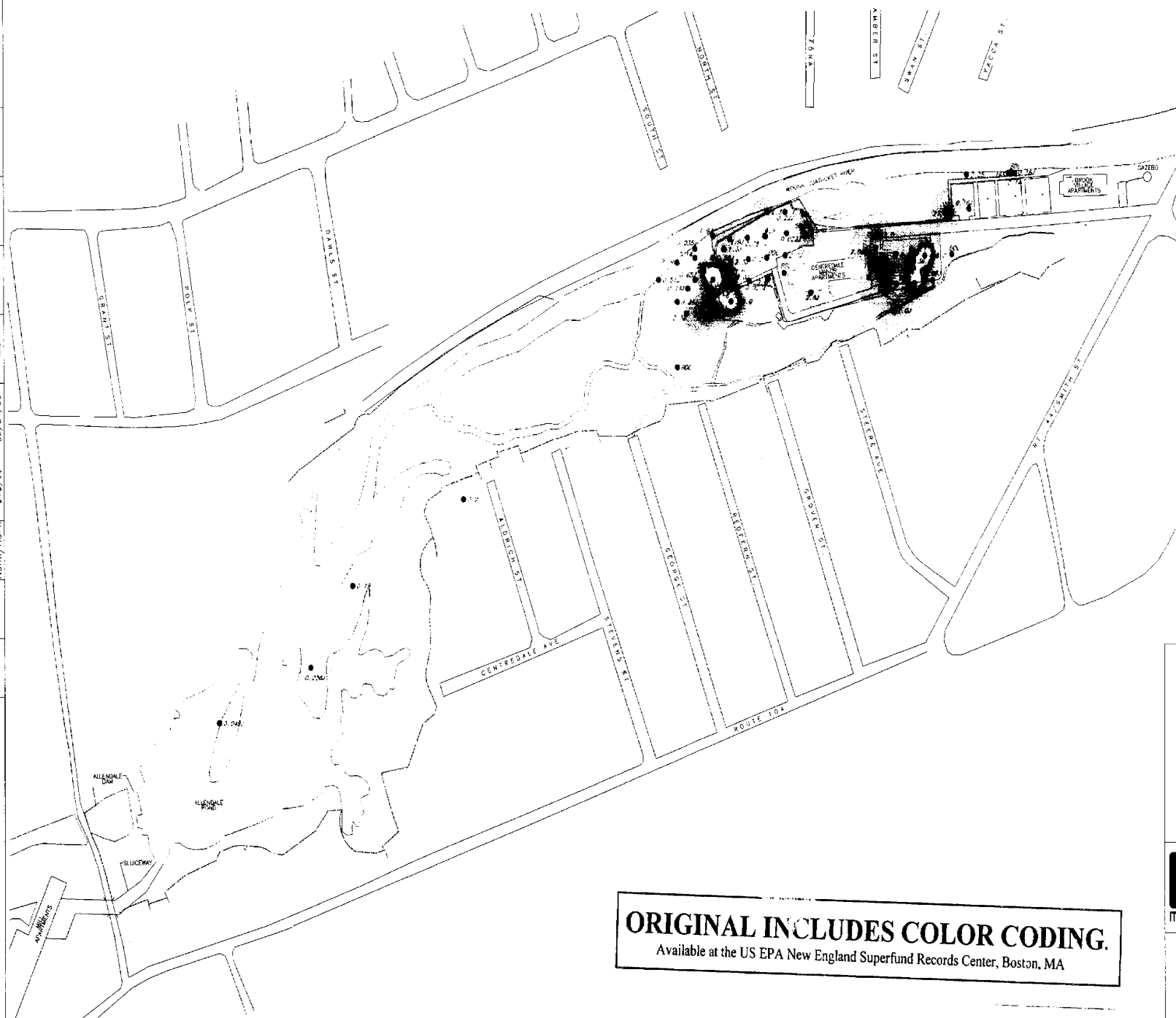
PCB Concentration Distribution in Soil
(0-1 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

ORIGINAL INCLUDES COLOR CODING.

Available at the US EPA New England Superfund Records Center, Boston, MA

IMAGE X-REF OFFICE NORM/HOPK DRAWN BY 02/24/00 CHECKED BY APPROVED BY DRAWING NUMBER PCB_GEOSB.dwg

PCB Concentration Distribution in Soil (1-2 feet below ground surface) (June to November 1999)



LEGEND:

- SOIL BORING LOCATION
75 - 1 SAMPLE DEPTH IN mg/kg
- BUILDING OUTLINE
- FENCE

NOTE: ONLY THE MAXIMUM CONCENTRATION DETECTED IS LISTED FOR EACH BORING LOCATION.
NOTE: ONLY BORING LOCATIONS SAMPLED FOR PCBs ARE SHOWN.
mg/kg = PARTS PER MILLION
BDL = BELOW DETECTION LIMIT

SCALE

0 125 250 375 FEET

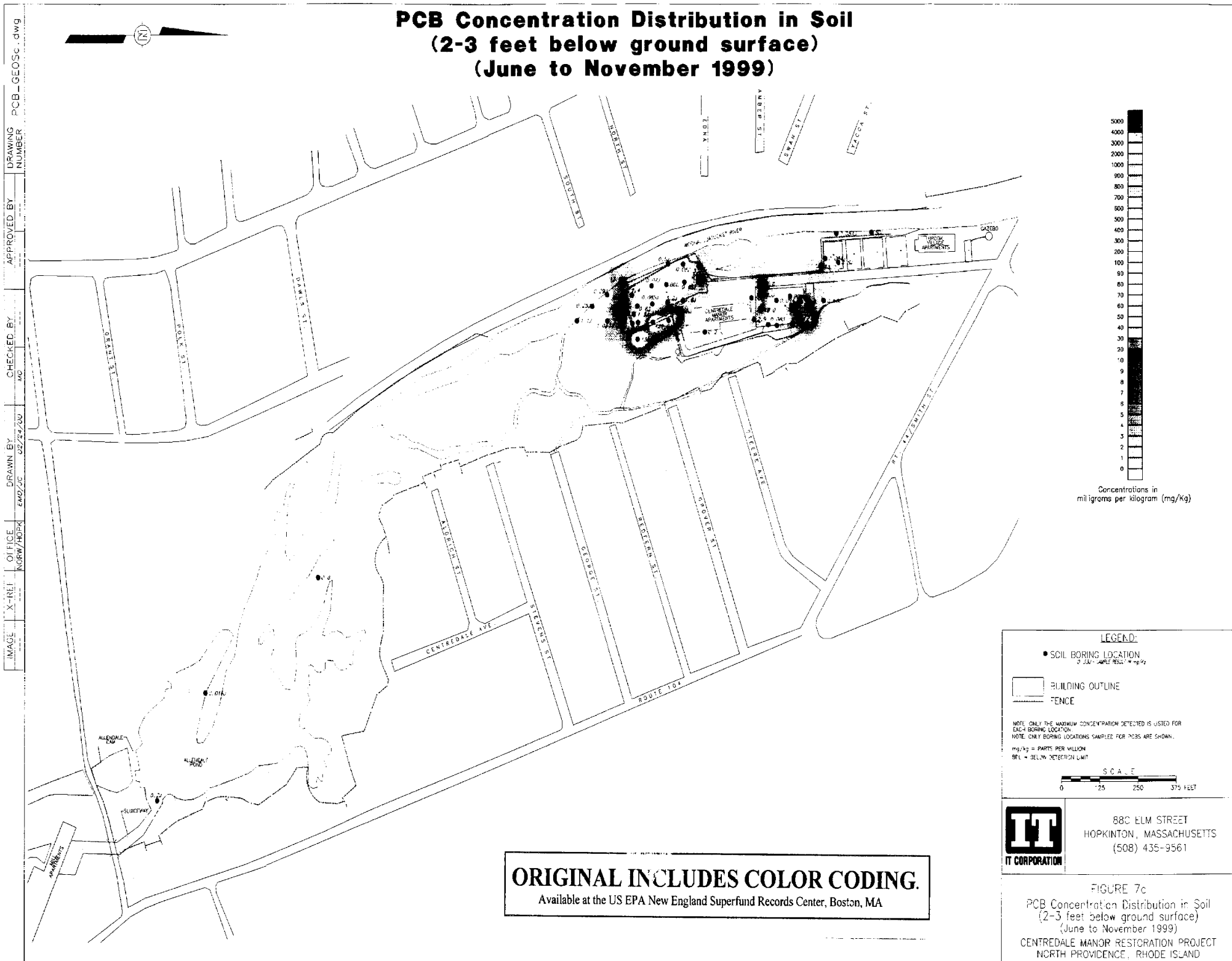
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ORIGINAL INCLUDES COLOR CODING.
Available at the US EPA New England Superfund Records Center, Boston, MA

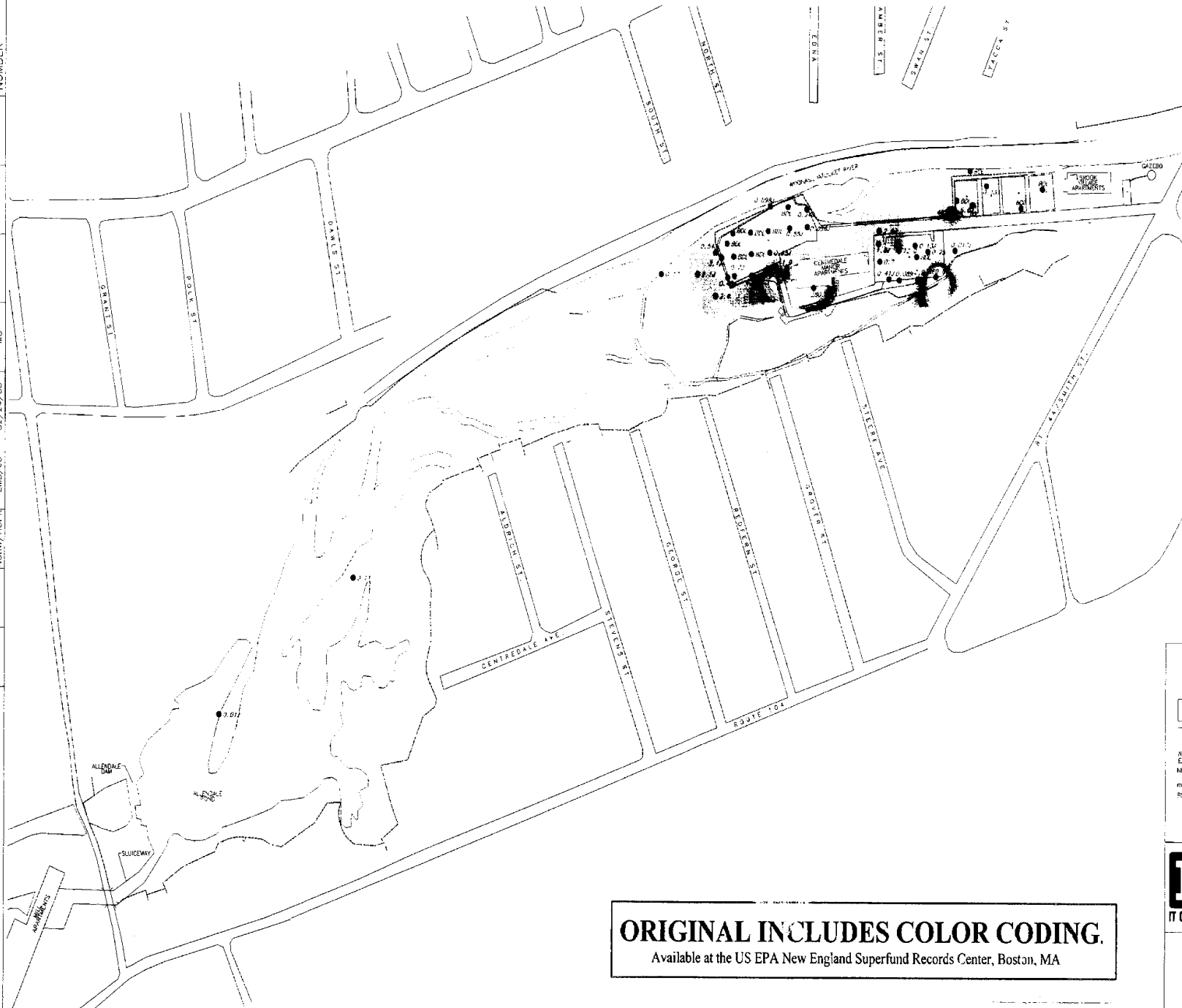
FIGURE 7b
PCB Concentration Distribution in Soil
(1-2 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

PCB Concentration Distribution in Soil (2-3 feet below ground surface) (June to November 1999)



PCB Concentration Distribution in Soil (3-4 feet below ground surface) (June to November 1999)

IMAGE X-REF OF CL DRAWN BY CHECKED BY APPROVED BY
PCB_GFOsd.dwg
NUMBER
NO
02/24/00
END/LC
NORM/HOP/K



Concentrations in
milligrams per kilogram (mg/Kg)

LEGEND:

● SOIL BORING LOCATION

□ BUILDING OUTLINE
--- FENCE

NOTE: ONLY THE MAXIMUM CONCENTRATION DETECTED IS LISTED FOR EACH BORING LOCATION.
NOTE: ONLY BORING LOCATIONS SAMPLED FOR PCBs ARE SHOWN.

mg/kg = PARTS PER MILLION
RL = BELOW DETECTION LIMIT

SCALE
0 125 250 375 FEET

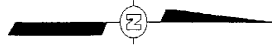


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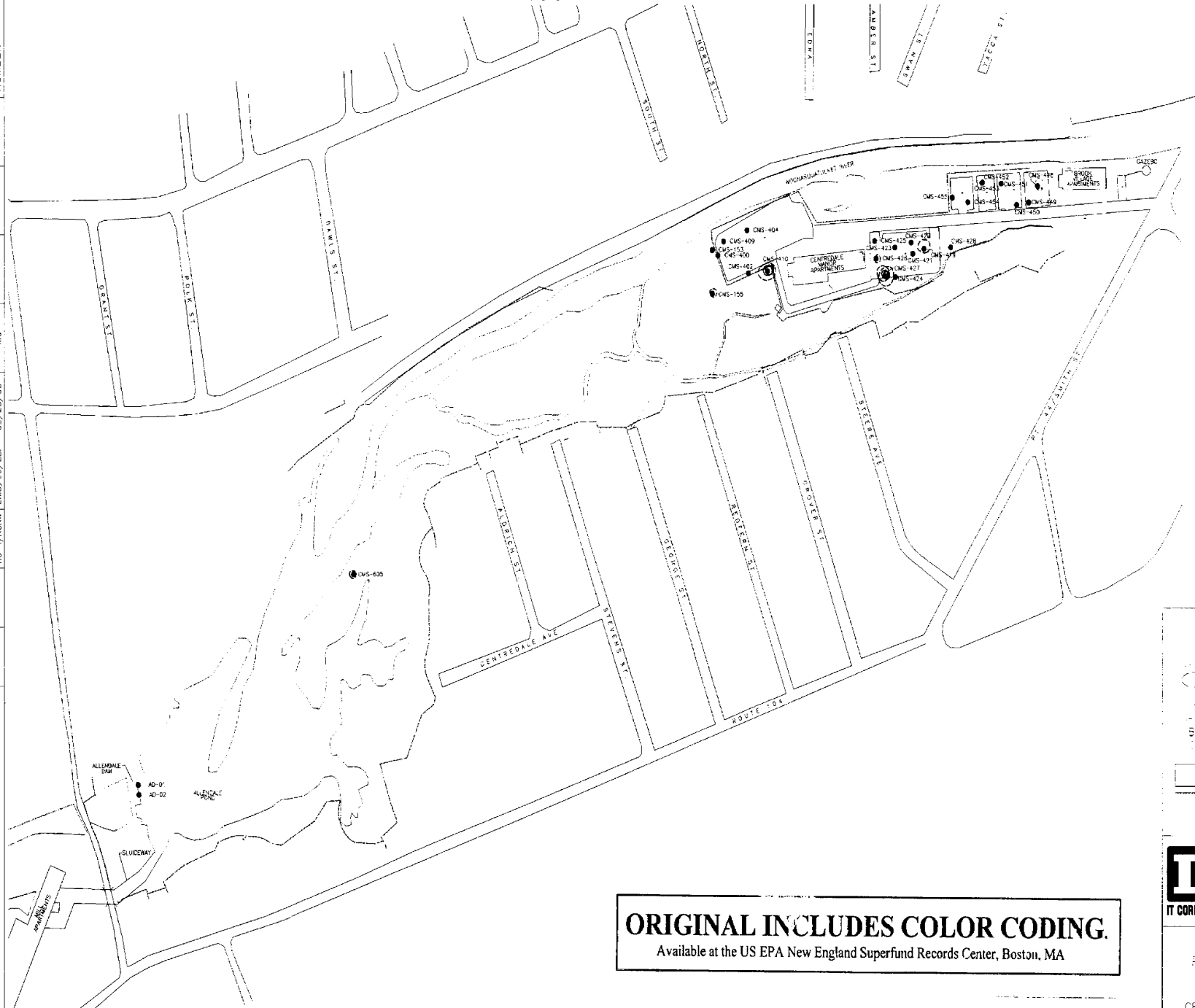
ORIGINAL INCLUDES COLOR CODING.
Available at the US EPA New England Superfund Records Center, Boston, MA

FIGURE 7d
PCB Concentration Distribution in Soil
(3-4 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE X-REF OFFICE DRAWN BY CHECKED BY APPROVED BY
 --- --- HQX/NORM END/JCEDA 07/23/00 MO
 DRAWING NUMBER PCB-GEOS-1.dwg



PCB Concentration Distribution in Soil (4-8 feet below ground surface) (June to November 1999)



LEGEND:
 ● SOIL BORING LOCATION
 EX: CWS-155 - SOIL BORING IDENTIFICATION

1 ppm
 10 ppm
 100 ppm
 1000 ppm
 BLUE 6-7 FEET
 1000 ppm

BUILDING OUTLINE
 FENCE

SCALE
 0 125 250 375 FEET



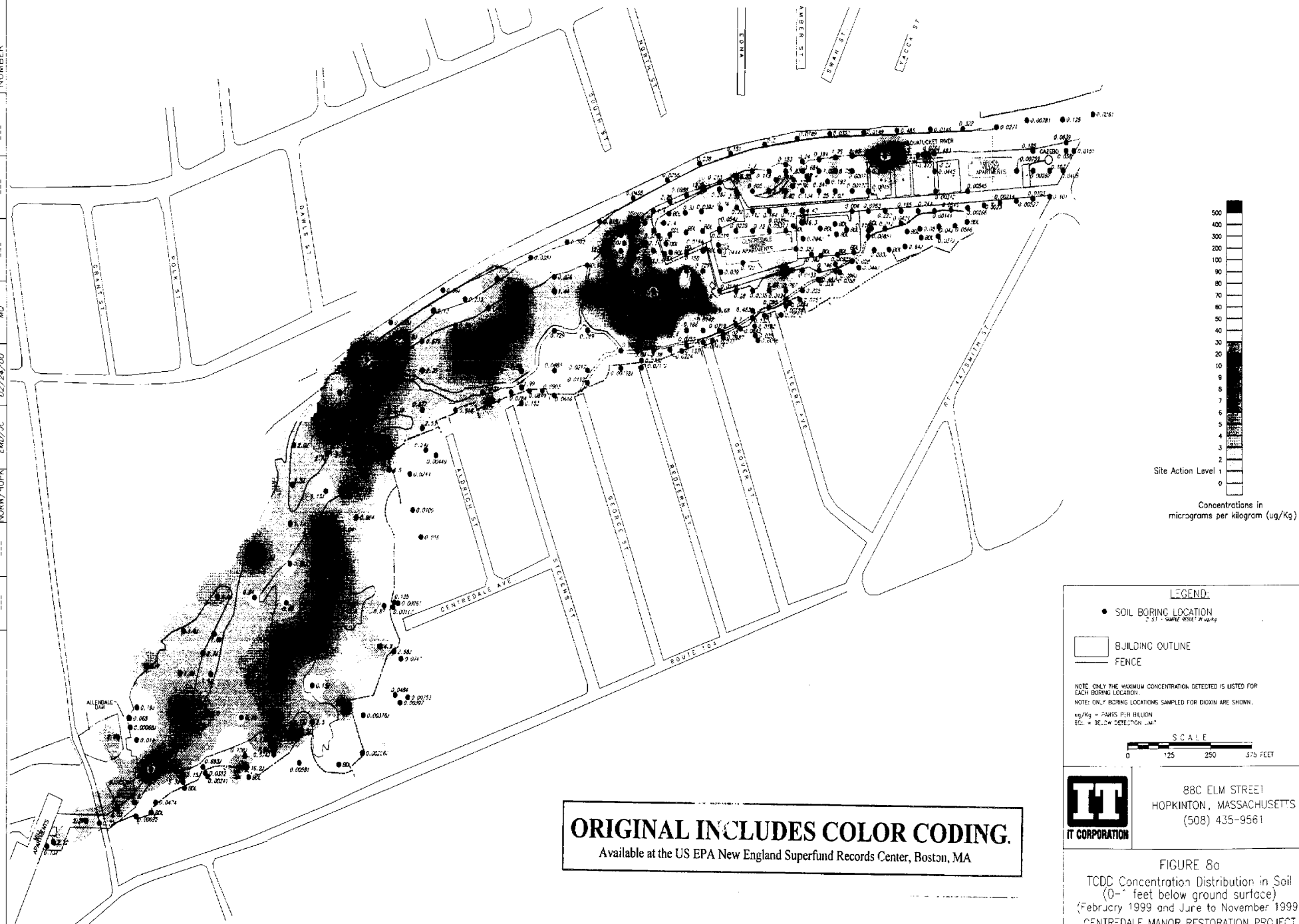
880 ELW STREET
 HOPKINTON, MASSACHUSETTS
 (508) 435-9561

ORIGINAL INCLUDES COLOR CODING.

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FIGURE 7e
 PCB Concentration Distribution in Soil
 (4-8 feet below ground surface)
 (June to November 1999)
 CENTREDALE MANOR RESTORATION PROJECT
 NORTH PROVIDENCE, RHODE ISLAND

TCDD Concentration Distribution in Soil (0-1 feet below ground surface) (February 1999 and June to November 1999)

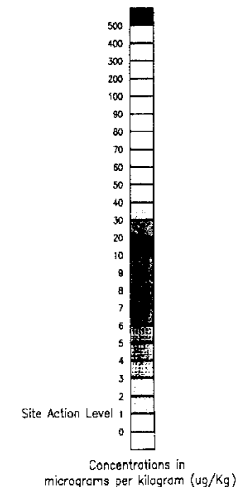
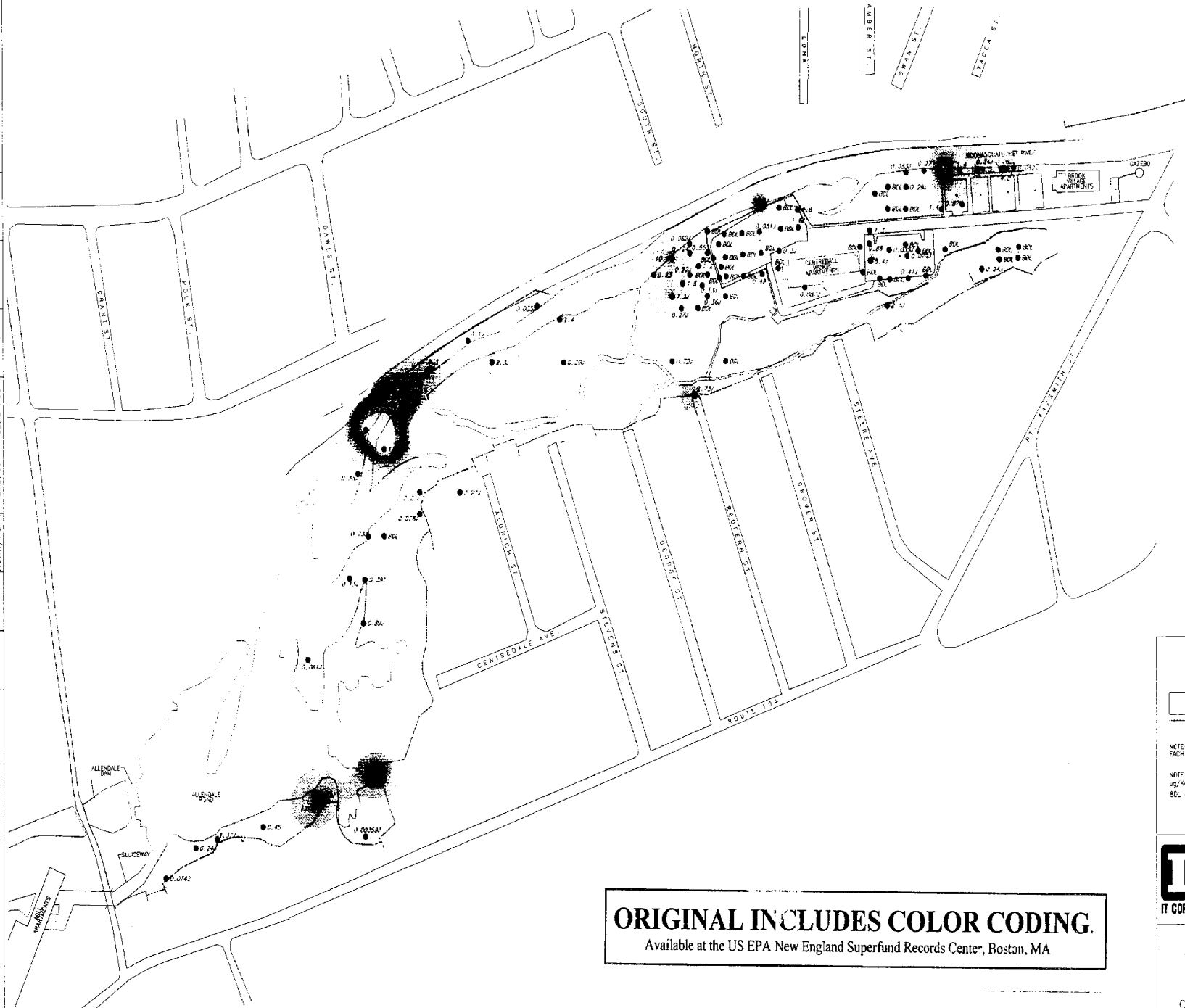


ORIGINAL INCLUDES COLOR CODING.

Available at the US EPA New England Superfund Records Center, Boston, MA

TCDD Concentration Distribution in Soil (1-2 feet below ground surface) (June to November 1999)

IMAGE X-REF OFFICE DRAWN BY CHECKED BY APPROVED BY
 DWN/H074 EMD/JC 02/24/00
 DRAWING DWN_GEOSB.dwg
 NUMBER



LEGEND:

- SOIL BORING LOCATION
EX: CWS-18 - SOIL BORING IDENTIFICATION
C 240 - SAMPLE RESULT (ug/Kg)
- BUILDING OUTLINE
- FENCE

NOTE: ONLY THE MAXIMUM CONCENTRATION DETECTED IS LISTED FOR EACH BORING LOCATION

NOTE: ONLY BORING LOCATIONS SAMPLED FOR DIOXIN ARE SHOWN
 ug/Kg = PARTS PER BILLION
 BDL = BELOW DETECTION LIMIT

SCALE
 0 125 250 375 FEET

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FIGURE 8b
 TCDD Concentration Distribution in Soil
 (1-2 feet below ground surface)
 (June to November 1999)
 CENTREDALE MANOR RESTORATION PROJECT
 NORTH PROVIDENCE, RHODE ISLAND

ORIGINAL INCLUDES COLOR CODING.
 Available at the US EPA New England Superfund Records Center, Boston, MA

TCDD Concentration Distribution in Soil (2-3 feet below ground surface) (June to November 1999)

IMAGE X-REF OFFICIAL DRAWING BY CHECKED BY APPROVED BY
DWN_GEOsc.dwg
NUMBER

APPROVED BY

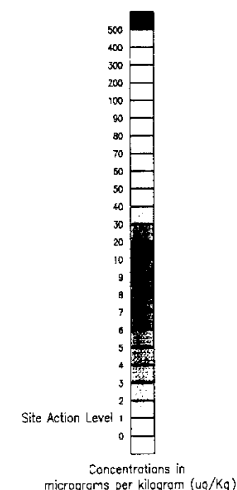
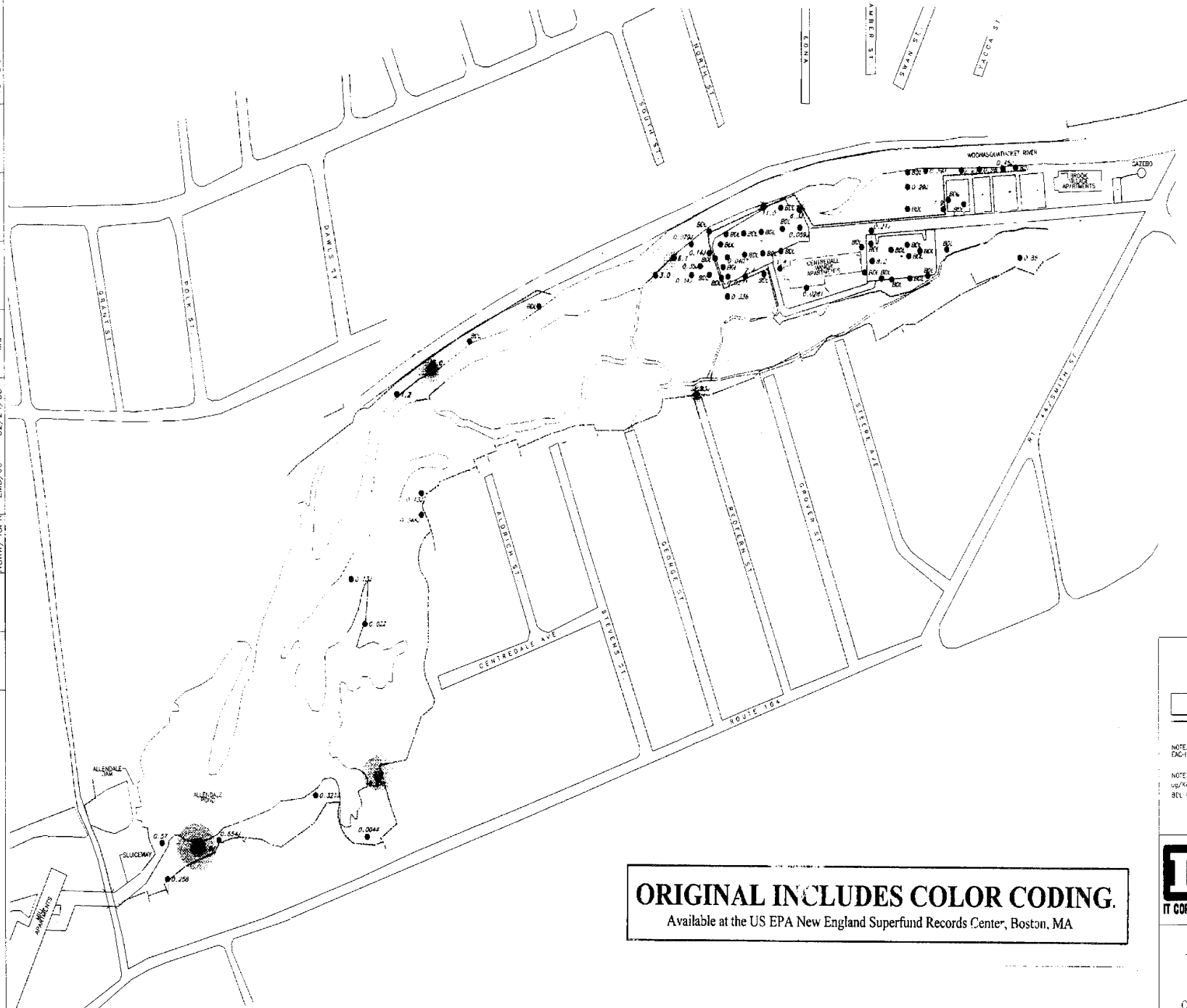
CHECKED BY

DRAWN BY

OFFICIAL

X-REF

IMAGE



ORIGINAL INCLUDES COLOR CODING.

Available at the US EPA New England Superfund Records Center, Boston, MA

LEGEND:

- SOIL BORING LOCATION
EX: TCMS-118 - SOIL BORING IDENTIFICATION
OF 118 - 118 - 118 - 118

— BUILDING OUTLINE
--- FENCE

NOTE: ONLY THE MAXIMUM CONCENTRATION DETECTED IS LISTED FOR EACH BORING LOCATION.

NOTE: ONLY BORING LOCATIONS SAMPLED FOR DIOXIN ARE SHOWN.
ug/Kg = PARTS PER BILLION
BCL = REL. DETECTION LIMIT

SCALE
0 125 250 375 FEET



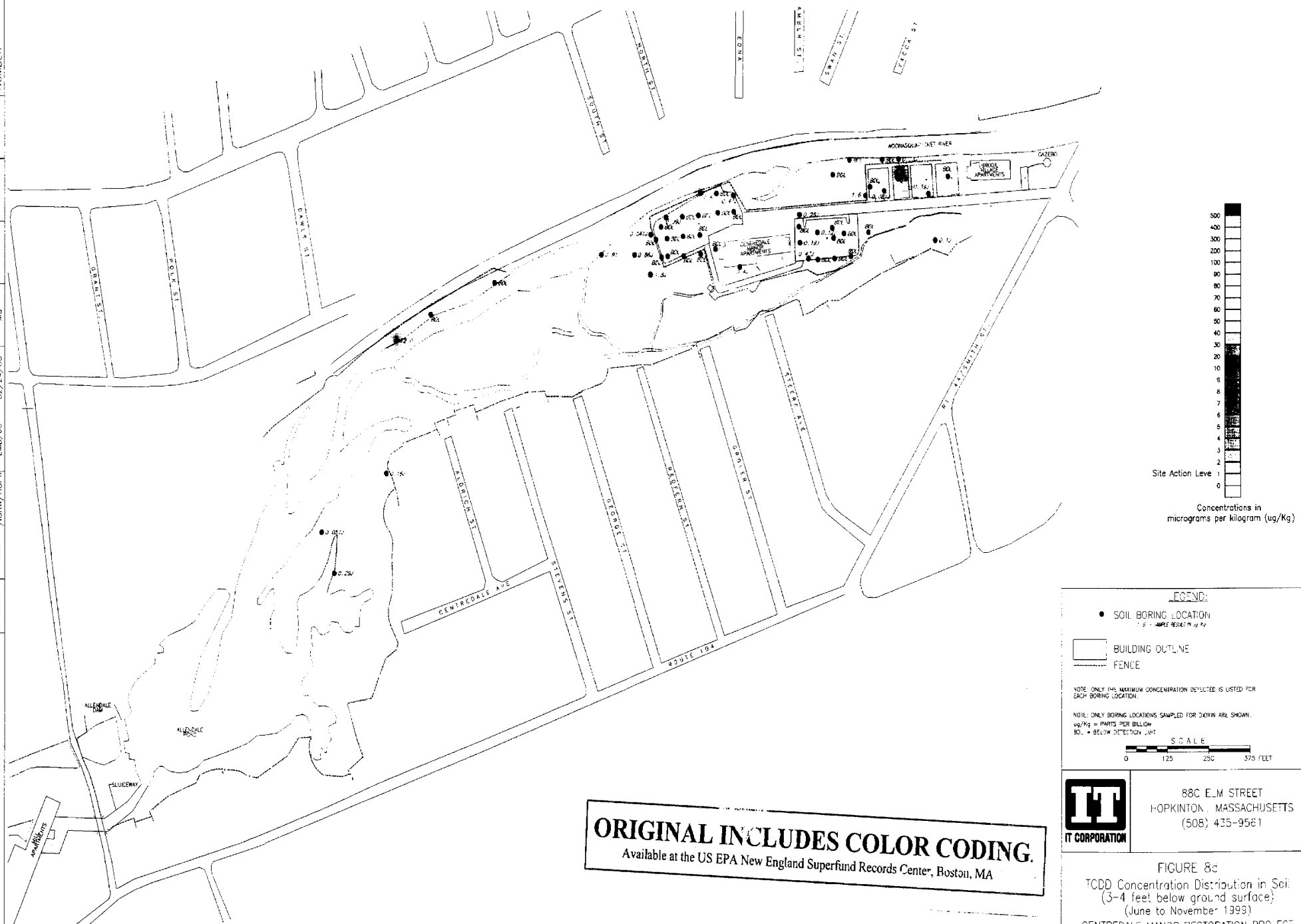
880 ELM STREET
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FIGURE 8c

TCDD Concentration Distribution in Soil
(2-3 feet below ground surface)
(June to November 1999)

CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

**TCDD Concentration Distribution in Soil
(3-4 feet below ground surface)
(June to November 1999)**



ORIGINAL INCLUDES COLOR CODING.
Available at the US EPA New England Superfund Records Center, Boston, MA



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FIGURE 8c
TCDD Concentration Distribution in Soil
(3-4 feet below ground surface)
(June to November 1993)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND



TCDD Concentration Distribution in Soil (4-8 feet below ground surface) (June to November 1999)



LEGEND

- SOIL BORING LOCATION
EX. CMS-155 - 204 BORING IDENTIFICATION
- 1 ppb
- 5 ppb
- 10 ppb
- 15 ppb
- 20 ppb
- 25 ppb
- 30 ppb
- 35 ppb
- 40 ppb
- 45 ppb
- 50 ppb
- 55 ppb
- 60 ppb
- 65 ppb
- 70 ppb
- 75 ppb
- 80 ppb
- 85 ppb
- 90 ppb
- 95 ppb
- 100 ppb

— BUILDING OUTLINE
--- FENCE

SCALE
0 125 250 375 FEET

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FIGURE 8e
TCDD Concentration Distribution in Soil
(4-8 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

Dioxin/PCB Concentration Summary Map (February 1999 and June to November 1999)

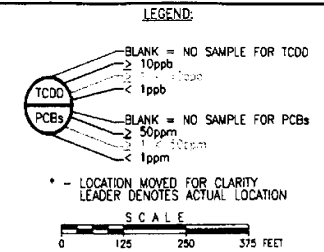


IMAGE X-REF OFFICE HOPK/NORM END/UC/EDA 10/7/99
 DRAWN BY AS
 CHECKED BY
 APPROVED BY
 DRAWING SYMBOLMap.dwg
 NUMBER



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FIGURE 9
 Dioxin/PCB
 Concentration Summary Map
 (February 1999 and June to November 1999)
 CENTREDALE MANOR RESTORATION PROJECT
 NORTH PROVIDENCE, RHODE ISLAND