INTERNATIONAL TECHNOLOGY CORPORATION

LETTER OF TRANSMITTAL

DATE: 3/17/2000

Via: Fedex

TO: USEPA Region 1

ADDRESS 1 Congress Street

CITY Boston, MA

ATTENTION: Ted Bazinos

Refer: _____

We are sending you: X Herewith ___ Under separate cover ___ Prints
___ Tracings ___ Specifications ___ Other

Final maps for the Centredale Project.

These are: (As checked below)

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

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 _____

SDMS DocID 11310

100 River Ridge Drive / Norwood, MA 02062 USA (781) 769-7600 FAX 781-769-7992

SITE MAP
(February 1999 and June to November 1999)

LEGEND:
- SOIL BORING LOCATION (EX. CMS-118 - SOIL BORING IDENTIFICATION)
- BUILDING OUTLINE
- WATERWAY OR POND
- ROADWAY EDGE
- FENCE

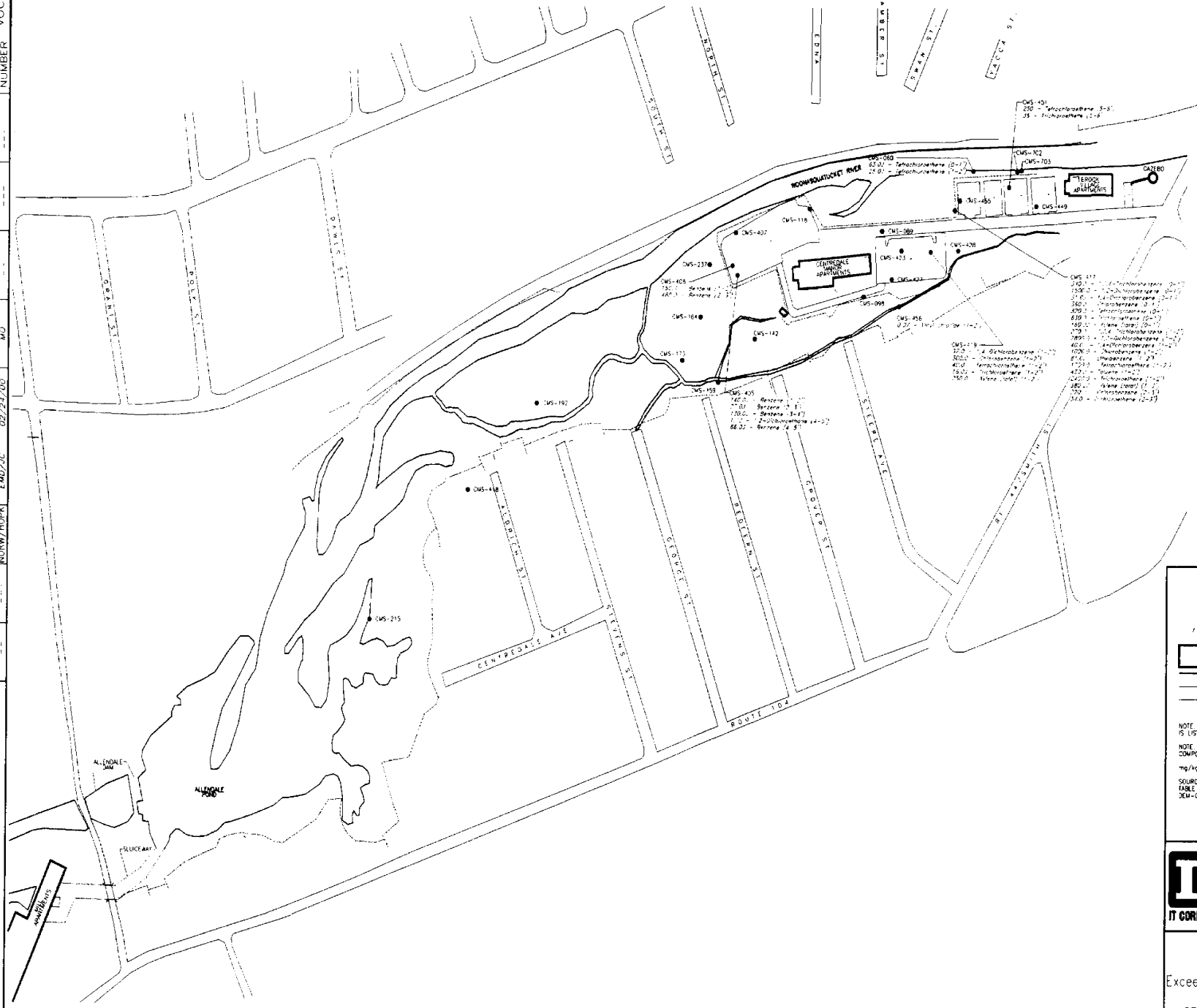
SCALE: 0 125 250 375 FEET

IT CORPORATION
880 ELM 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

IMAGE	X REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	HOPK/NORM	EMD/JC/EDA 02/23/00	MD	---	SITEPLAN3.dwg

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



LEGEND:

- SOIL BORING LOCATION
  - EX: CMS-118 - SOIL BORING IDENTIFICATION
  - 140.0 - Benzene (1-2') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 27.0 - Benzene (4-5') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 130.0 - Benzene (3-4') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 1.7 J - 1,1,2-Trichloroethane (4-5') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 56.0 - Benzene (4-5') - SAMPLE RESULT AND COMPOUND IN 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

SOURCE FOR RHODE ISLAND STANDARDS:
TABLE 1, DIRECT EXPOSURE CRITERIA, REMEDIATION REGULATIONS, DEM-DSR-01-93, 31 MARCH 1993, AMENDED AUGUST 1996

SCALE
0 125 250 375 FEET

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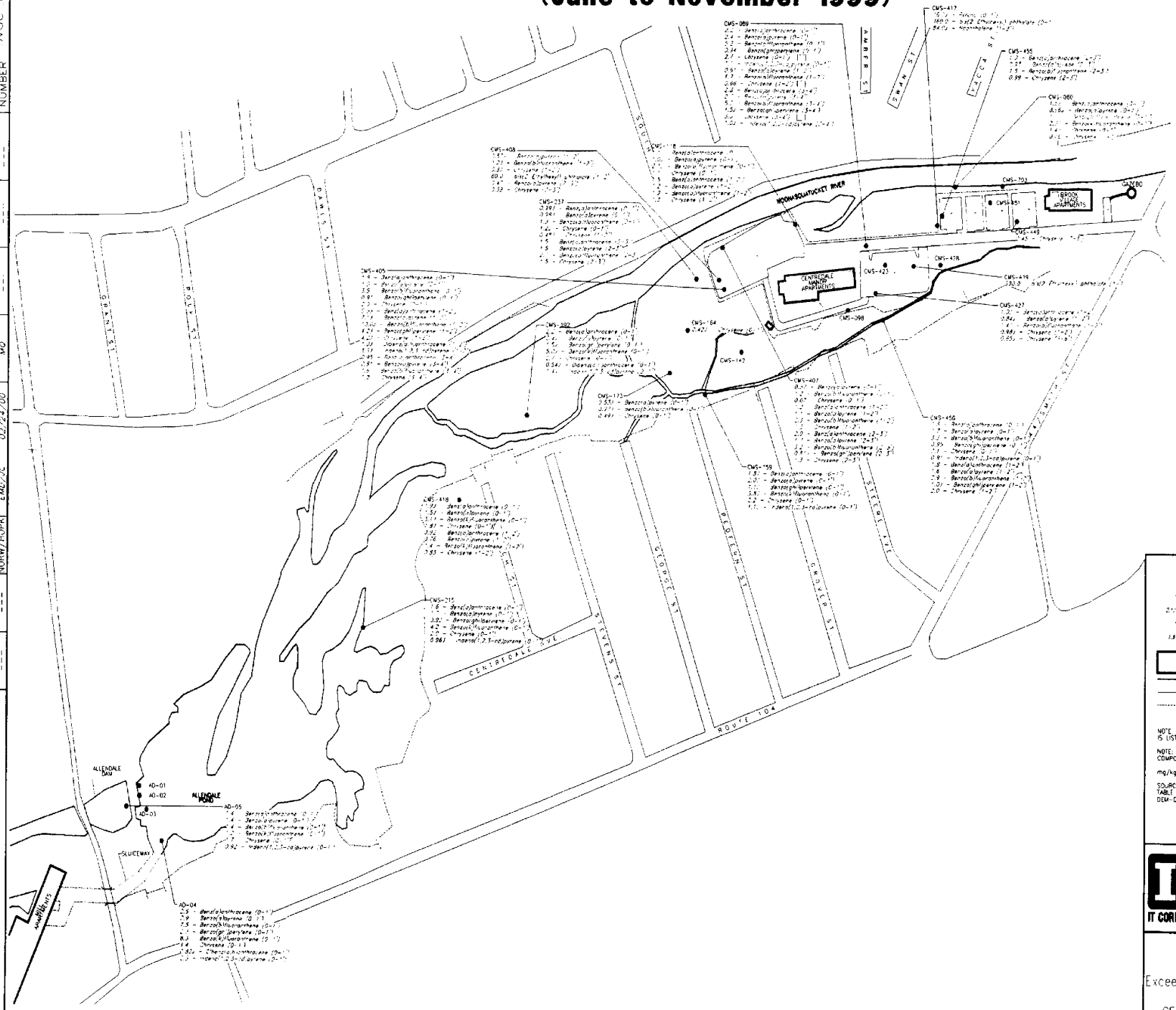
FIGURE 2
Volatile Organic Compounds
Exceeding Rhode Island Residential Standards
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE | X REF | OFFICE NORW/HOPK | DRAWN BY EMD/JC 02/24/00 | CHECKED BY MO | APPROVED BY | DRAWING NUMBER VOC_RI2.dwg

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



LEGEND:

- SOIL BORING LOCATION
  EX. CMS-118 - SOIL BORING IDENTIFICATION
  - Benzo(a)anthracene (0-1') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 1.01 - Benzo(a)pyrene (0-1') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 2.11 - Benzo(b)fluoranthene (0-1') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 1.1 - Chrysene (0-1') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 1.5 - Benzo(a)anthracene (1-2') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 1.1 - Benzo(a)pyrene (1-2') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 1.9 - Benzo(b)fluoranthene (1-2') - SAMPLE RESULT AND COMPOUND IN mg/kg - SAMPLE DEPTH RANGE
  - 1.3 - Chrysene (1-2') - SAMPLE RESULT AND COMPOUND IN 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 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 1996

SCALE
0 125 250 375 FEET

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

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	NORW/HOPK	EMD/JC 02/24/00	MO	---	SVOC_RI2.dwg

RCRA Metals Exceeding Rhode Island Residential Standards (June to November 1999)

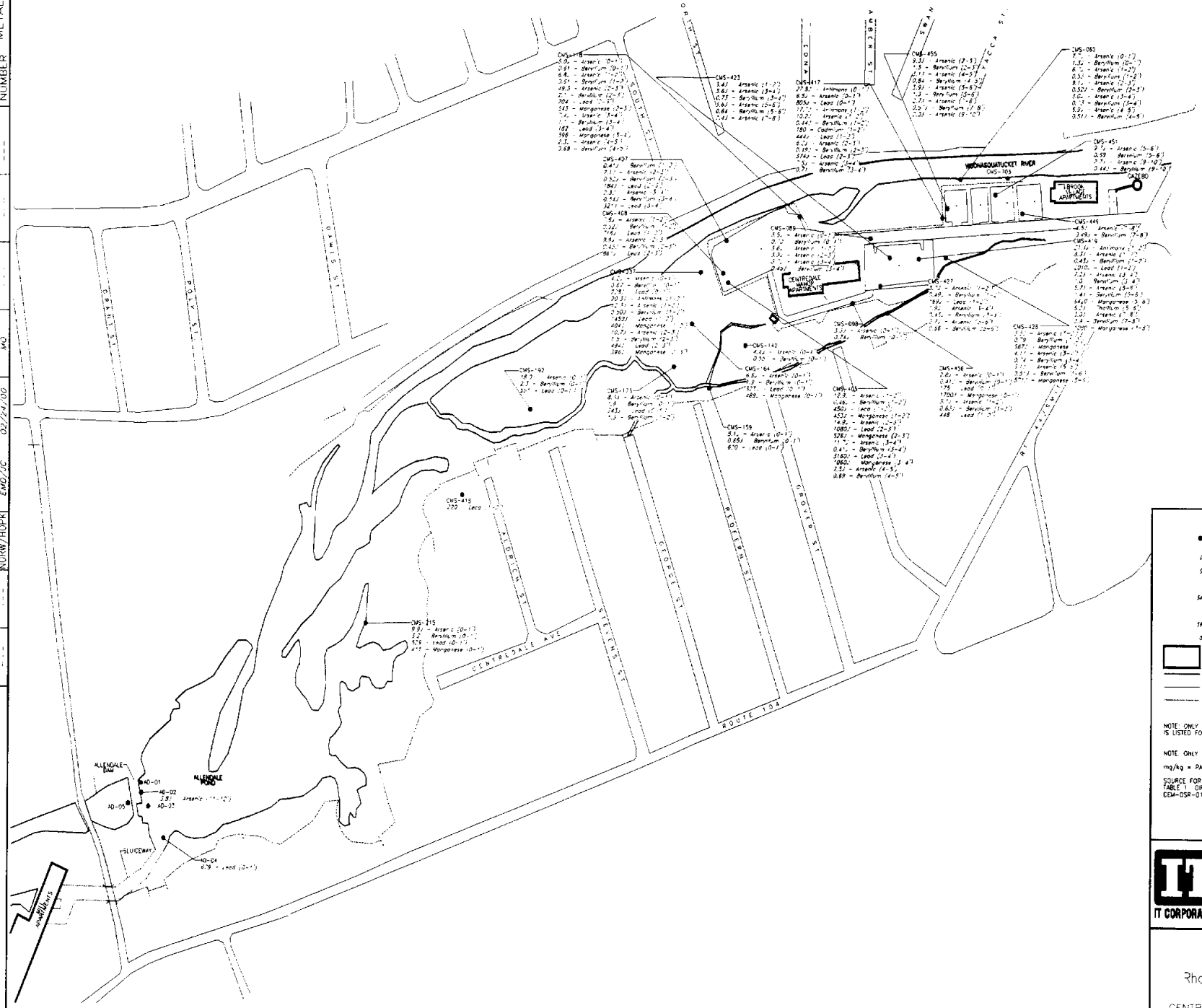

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FIGURE 4
RCRA Metals Exceeding
Rhode Island Residential Standards
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE | X-REF | OFFICE NORW/HOPK | DRAWN BY END/JC 02/24/00 | CHECKED BY MO | APPROVED BY | DRAWING NUMBER METALS_RI2.dwg

Total VOC Results
(June to November 1999)

LEGEND:

- SOIL BORING LOCATION
  EX: CMS-118 - SOIL BORING IDENTIFICATION
  BDL - (0.0-1.0') - SAMPLE RESULT AND COMPOUND X mg/kg - SAMPLE DEPTH RANGE
  0.0054 - (1.0-2.0') - SAMPLE RESULT AND COMPOUND X mg/kg - SAMPLE DEPTH RANGE
  BDL - (2.0-3.0') - SAMPLE RESULT AND COMPOUND X mg/kg - SAMPLE DEPTH RANGE
  BDL - (3.0-4.0') - SAMPLE RESULT AND COMPOUND X mg/kg - SAMPLE DEPTH RANGE
  BDL - (4.0-5.0') - SAMPLE RESULT AND COMPOUND X 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

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	NORW/HOPK	EMD/JC 02/24/00	MO	---	TVOC_R12.dwg

VERIFY SCALE
0

Total SVOC Results
(June to November 1999)

LEGEND:

- SOIL BORING LOCATION
  - EX.: CMS-118 = SOIL BORING IDENTIFICATION
  - 13.0 (0'-2') = SAMPLE RESULT AND COMPOUND (mg/kg) : SAMPLE DEPTH RANGE
  - 20.3 - (7'-9') = SAMPLE RESULT AND COMPOUND (mg/kg) : SAMPLE DEPTH RANGE
  - 4.5 - (2'-3') = SAMPLE RESULT AND COMPOUND (mg/kg) : SAMPLE DEPTH RANGE
  - 1.0 - (3'-4') = SAMPLE RESULT AND COMPOUND (mg/kg) : SAMPLE DEPTH RANGE
  - 9.3 - (4'-5') = SAMPLE RESULT AND COMPOUND (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 SEMI VOLATILE ORGANIC COMPOUNDS ARE SHOWN.

mg/kg = PARTS PER MILLION

SCALE
0 125 250 375 FEET

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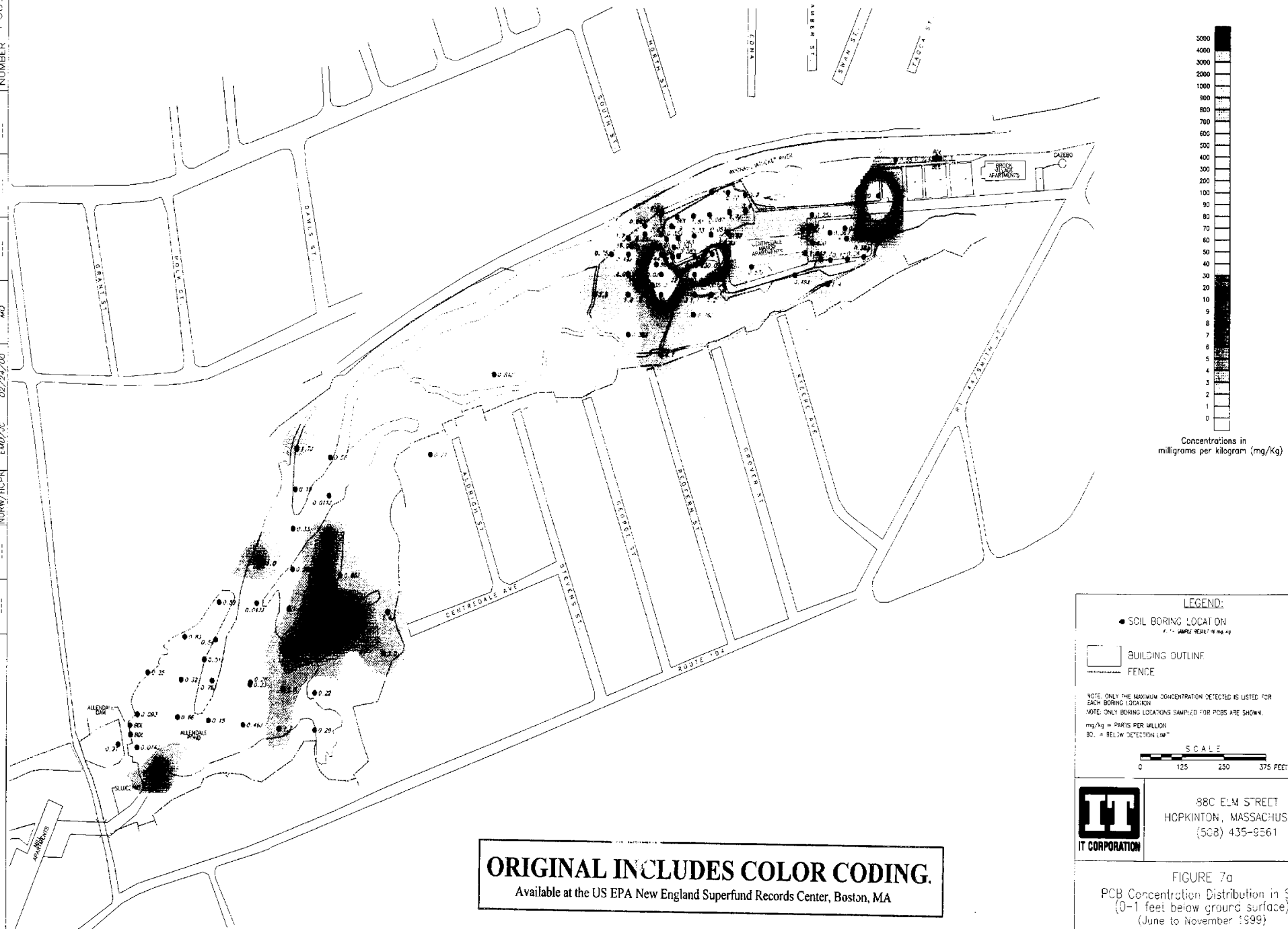
FIGURE 6

Total SVOC Results
(June to November 1999)

CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE: ---
X-REF: ---
OFFICE: NORW/HOPK
DRAWN BY: EMD/JC 02/24/00
CHECKED BY: MO
APPROVED BY: ---
DRAWING NUMBER: TSVOC R12.dwg

PCB Concentration Distribution in Soil
(0-1 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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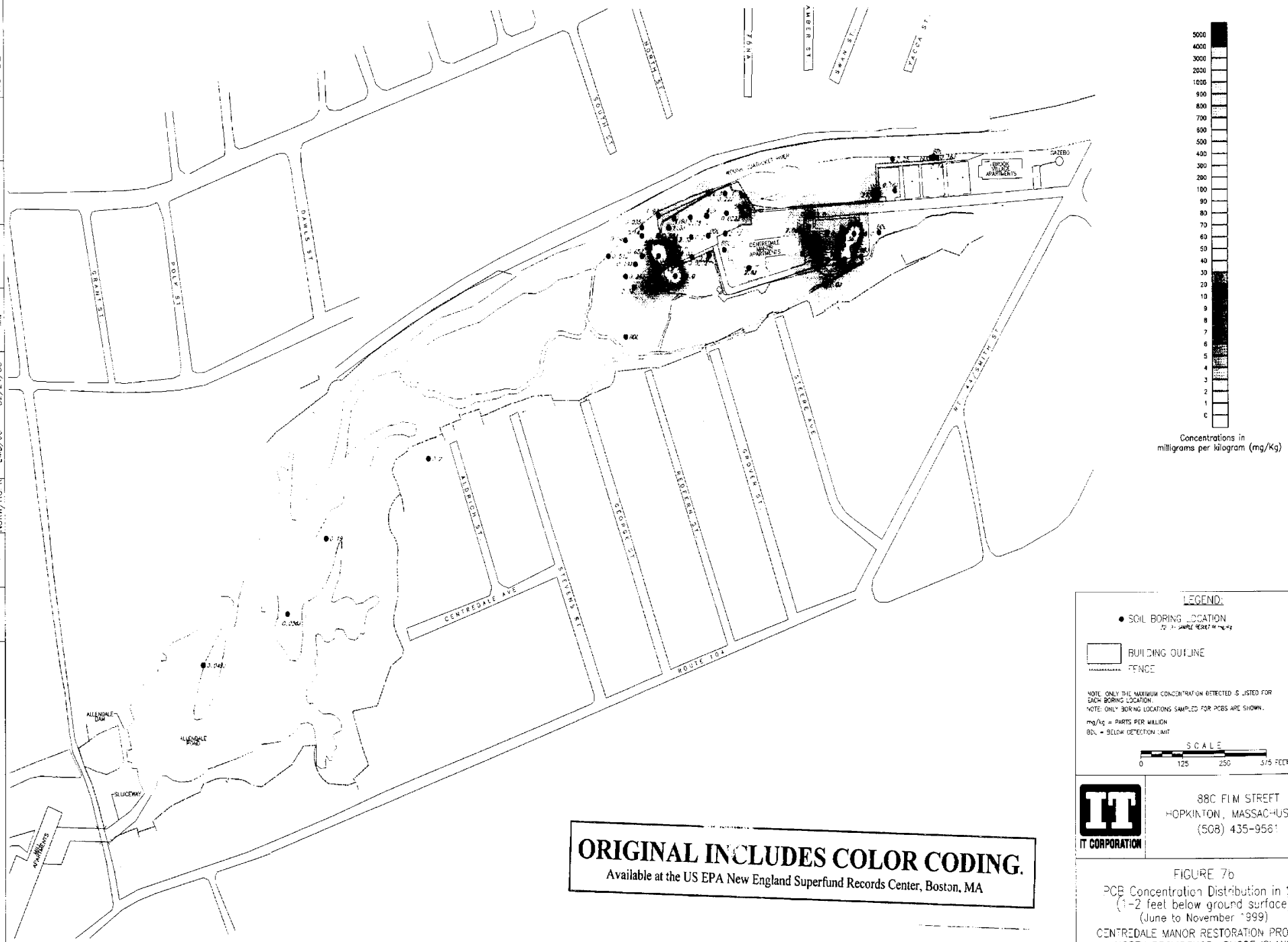
FIGURE 7a
PCB Concentration Distribution in Soil
(0-1 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

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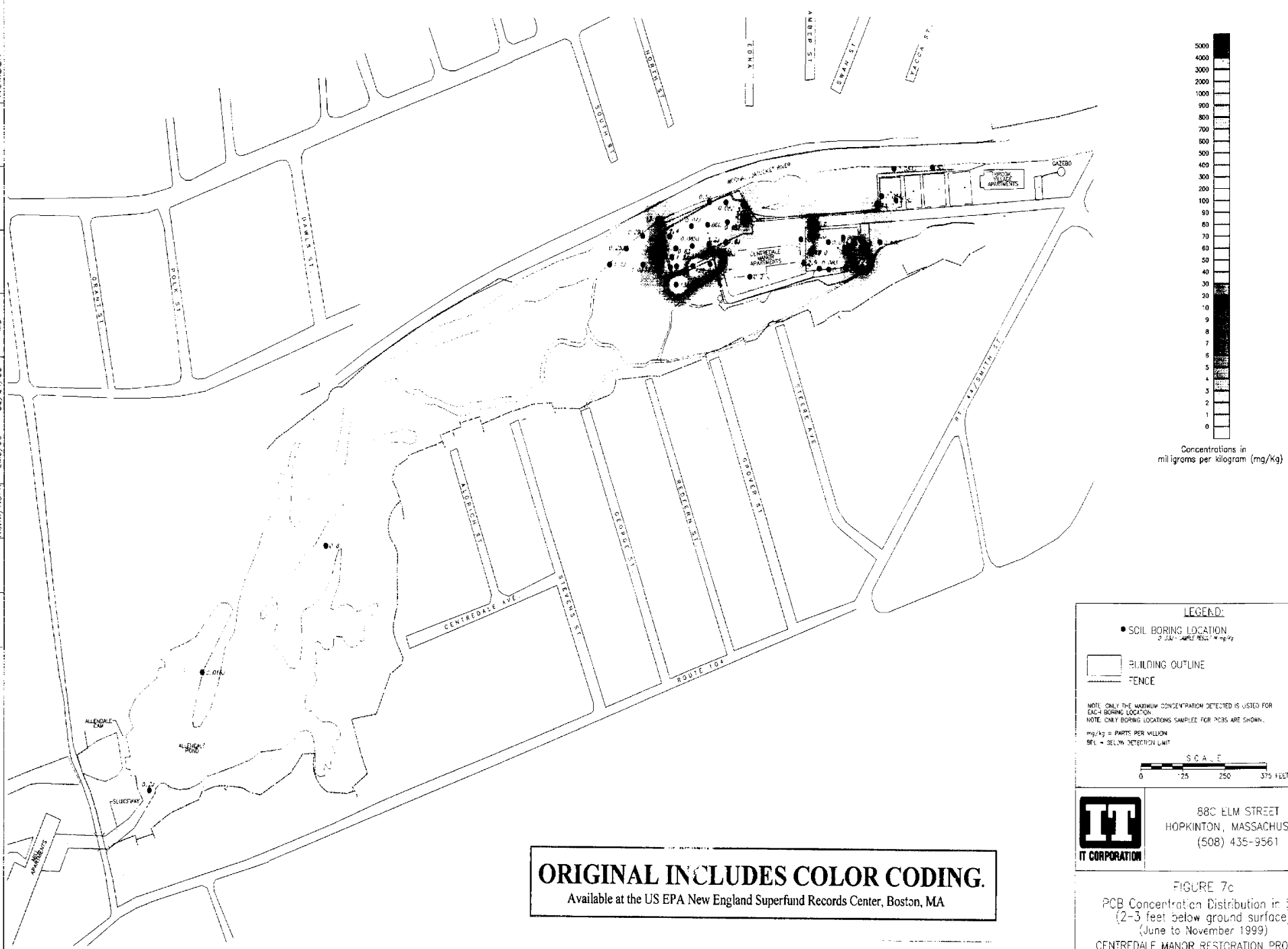
FIGURE 7b
PCB Concentration Distribution in Soil
(1-2 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
		NORW/HOPK	EMD/JC 02/24/00	MO		PCB_GEOSb.dwg

PCB Concentration Distribution in Soil
(2-3 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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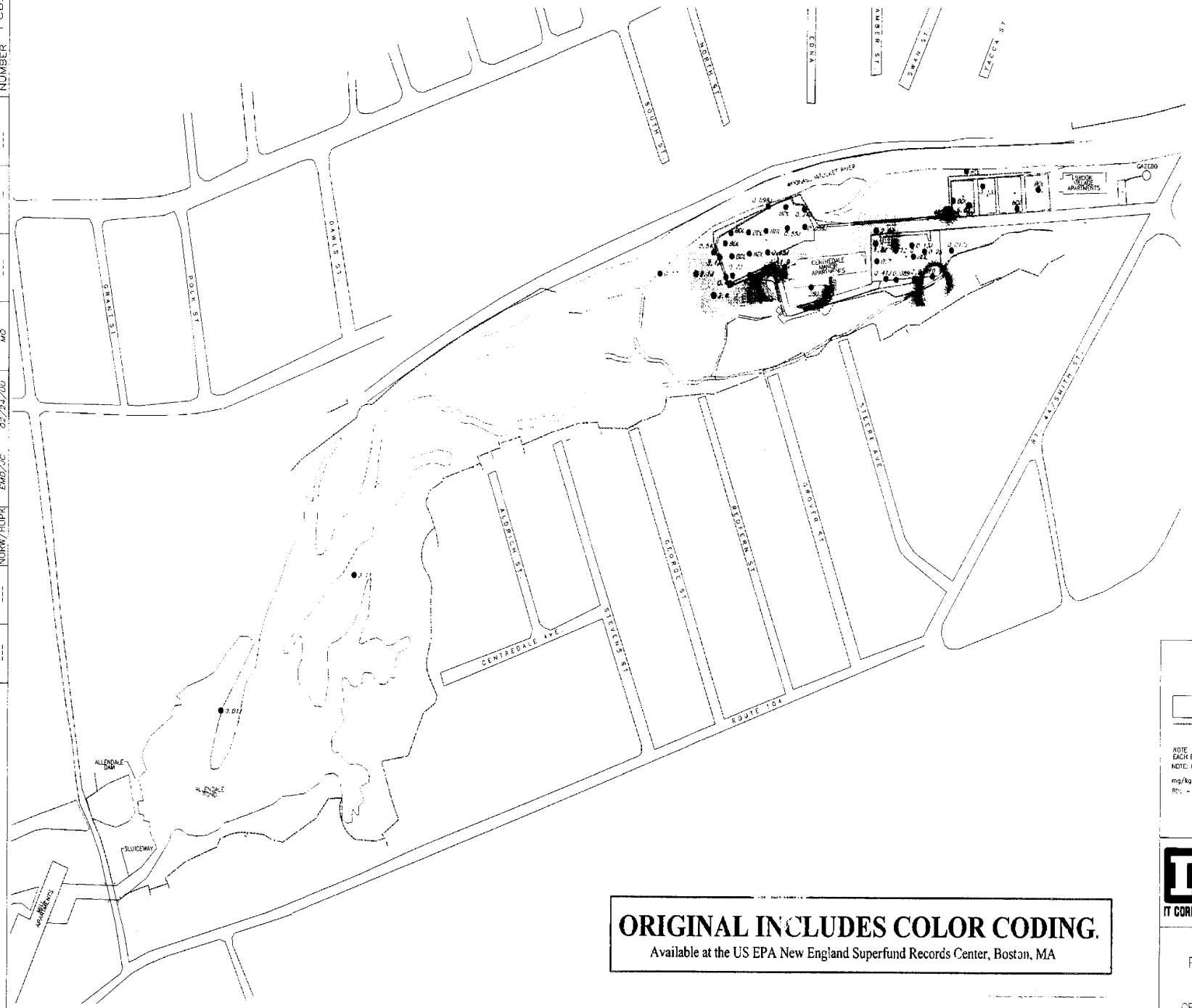
FIGURE 7c
PCB Concentration Distribution in Soil
(2-3 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	NORW/HOPK	EMO/JC 02/24/00	MO	---	PCB_GEOSc.dwg

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



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
BDL = BELOW DETECTION LIMIT

SCALE
0 125 250 375 FEET

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

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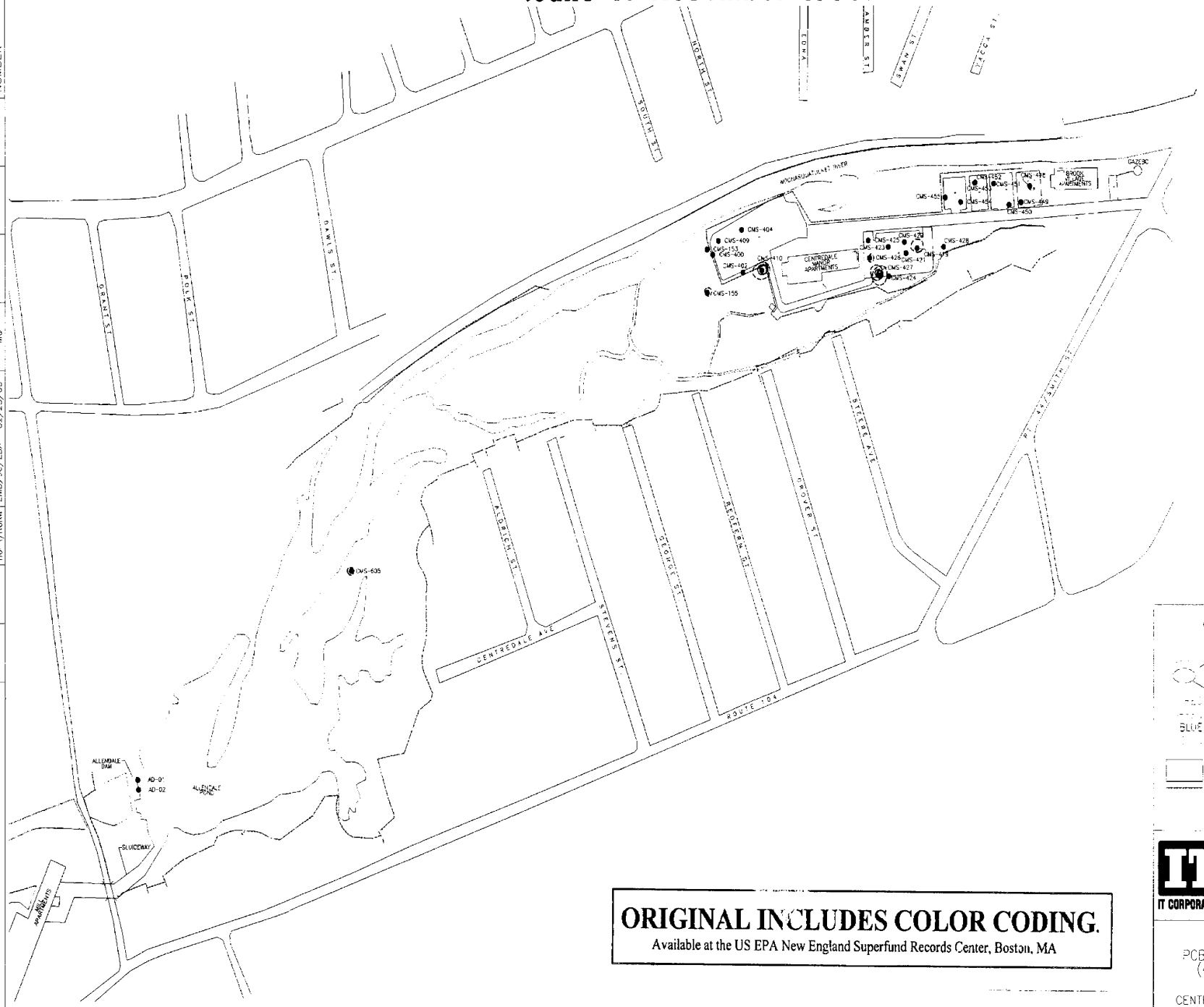
FIGURE 7d
PCB Concentration Distribution in Soil
(3-4 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE: ---
X-REF: ---
OFFICE: NORW/HOPK
DRAWN BY: EMD/JC 02/24/00
CHECKED BY: MD
APPROVED BY: ---
DRAWING NUMBER: PCB_GFOSd.dwg

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



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

LEGEND:
- SOIL BORING LOCATION
  EX.: CMS-155 - SOIL BORING IDENTIFICATION
- 1 ppm
- 10 ppm
- BLUE 6-7 FEET
- BUILDING OUTLINE
- FENCE

SCALE
0 125 250 375 FEET

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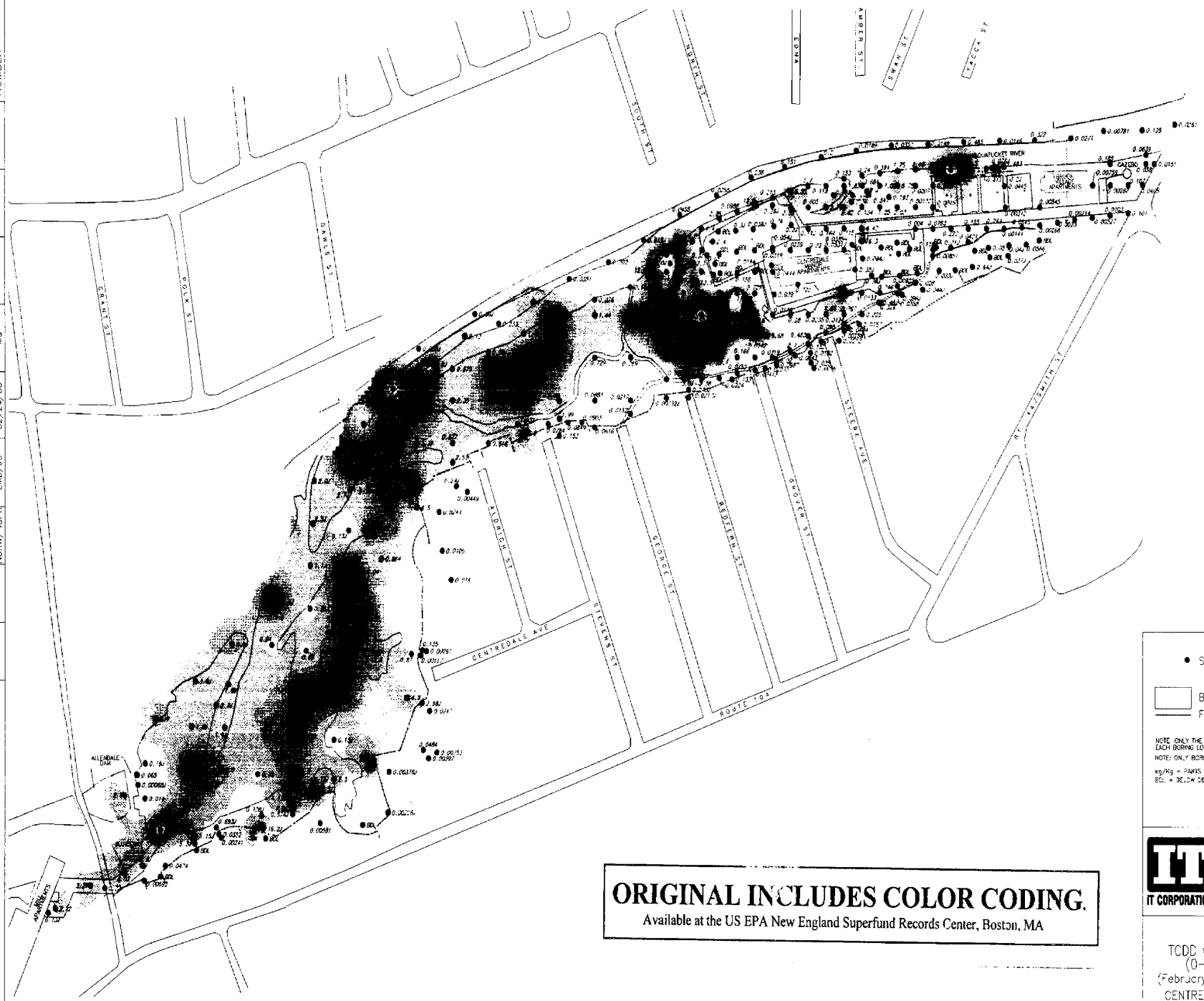
FIGURE 7e
PCB Concentration Distribution in Soil
(4-8 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE | X-REF | OFFICE HOPK/NORW | DRAWN BY ENG/JC/EDA 02/23/00 | CHECKED BY MO | APPROVED BY | DRAWING NUMBER PCB_GEOSe.dwg

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

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 DIOXIN ARE SHOWN.
ng/Kg = PARTS PER BILLION
BDL = BELOW DETECTION LIMIT

SCALE
0 125 250 375 FEET

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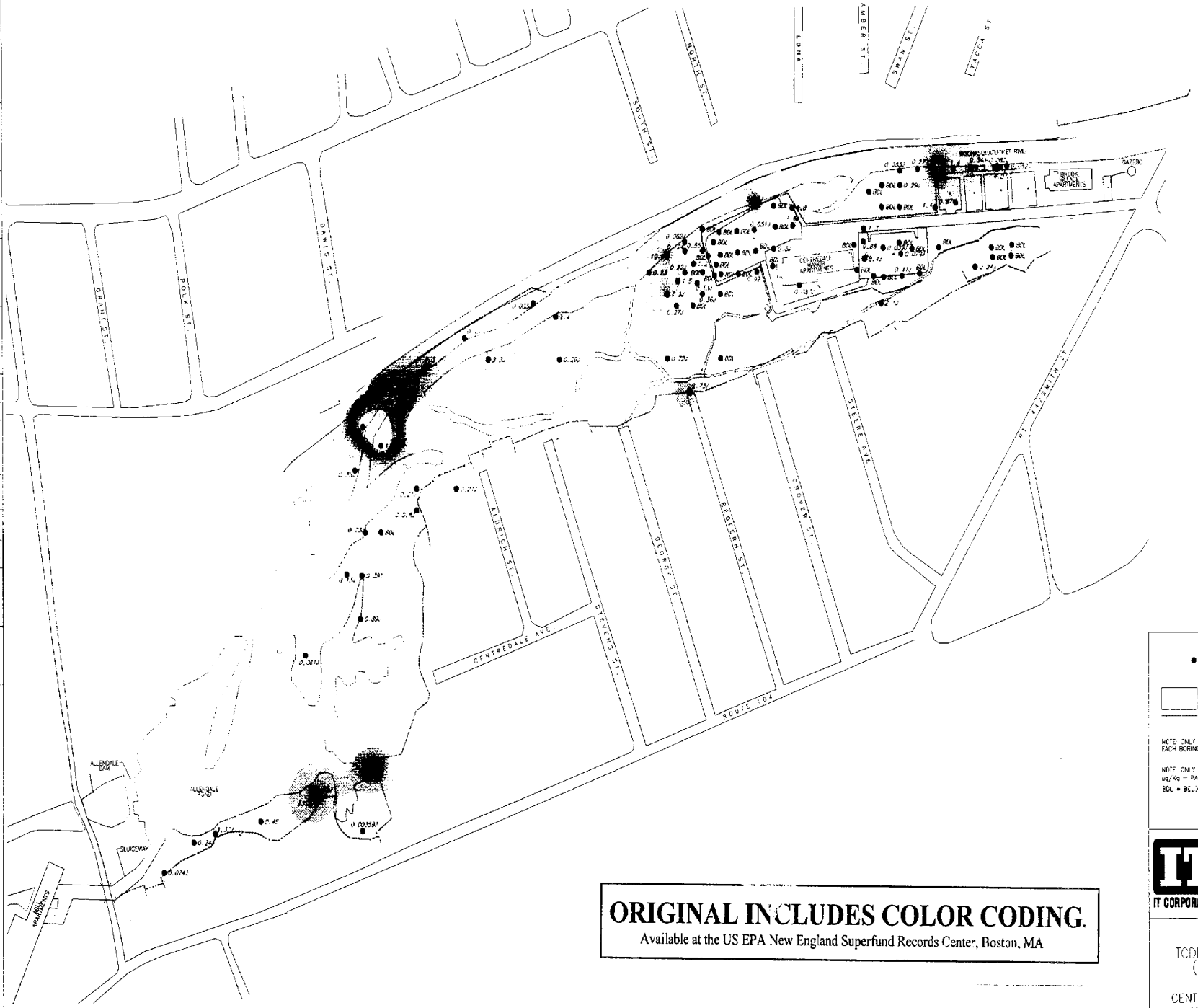
FIGURE 8a
TCDD Concentration Distribution in Soil
(0-1 feet below ground surface)
(February 1999 and June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE | X-REF | OFFICE NORW/40PK | DRAWN BY END/JC 02/24/00 | CHECKED BY MG | APPROVED BY | DRAWING NUMBER DXN_GEOSa.dwg

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



Site Action Level

500 400 300 200 100 90 80 70 60 50 40 30 20 10 9 8 7 6 5 4 3 2 1 0

Concentrations in micrograms per kilogram (ug/Kg)

LEGEND:

- SOIL BORING LOCATION
  EX.: SMS-118 - SOIL BORING IDENTIFICATION
  0.24J - SAMPLE RESULT in 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

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

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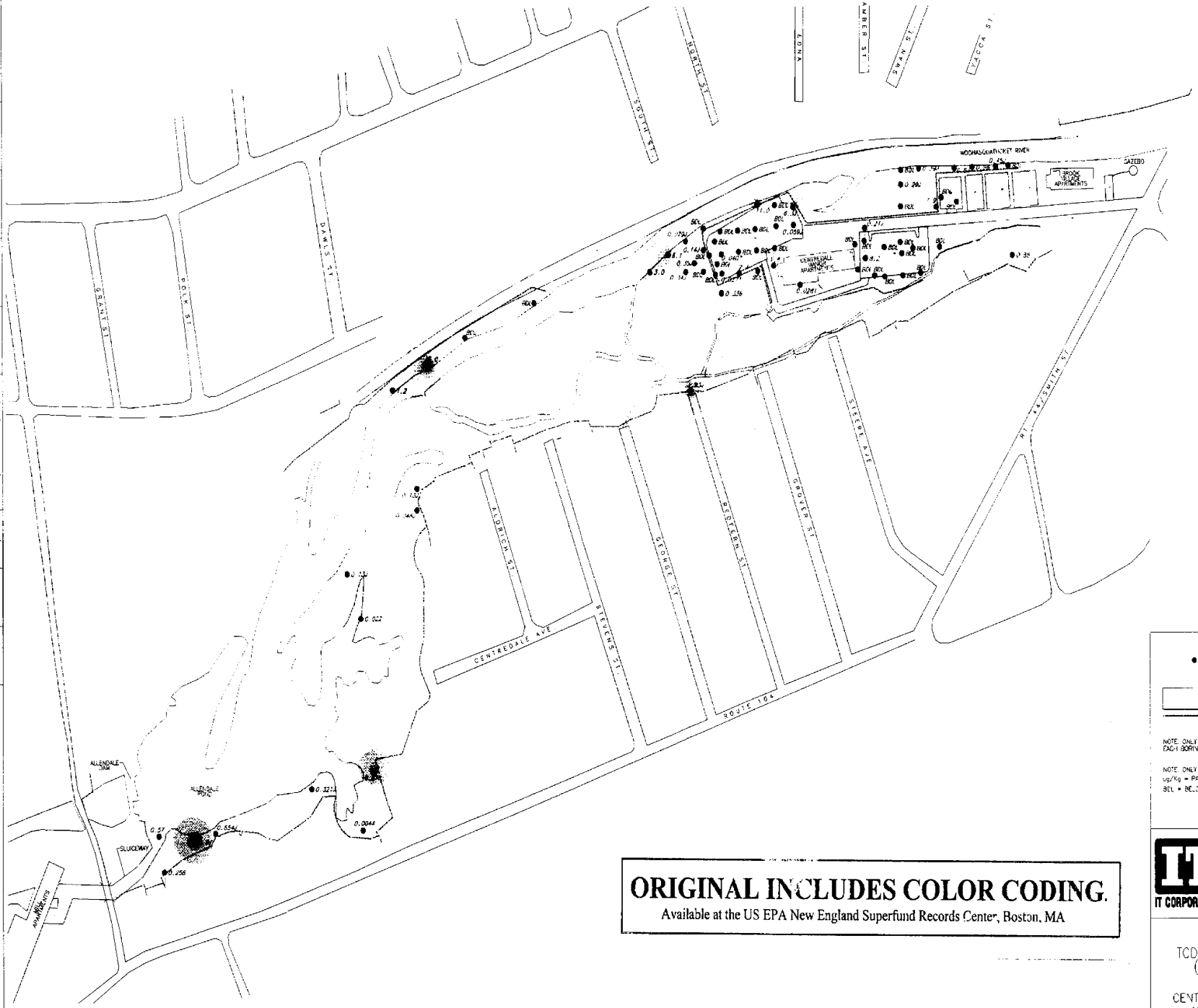
FIGURE 8b
TCDD Concentration Distribution in Soil
(1-2 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE | X-REF | OFFICE: NORW/HOPK | DRAWN BY: EMO/JIC 02/24/00 | CHECKED BY: MD | APPROVED BY: --- | DRAWING NUMBER: --- | DXN_GEOSb.dwg

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



Site Action Level

500 400 300 200 100 90 80 70 60 50 40 30 20 10 9 8 7 6 5 4 3 2 1 0

Concentrations in micrograms per kilogram (ug/Kg)

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

LEGEND:

- SOIL BORING LOCATION
  EX: CMS-118 - SOIL BORING IDENTIFICATION
  SS - SAMPLE RESULT IN 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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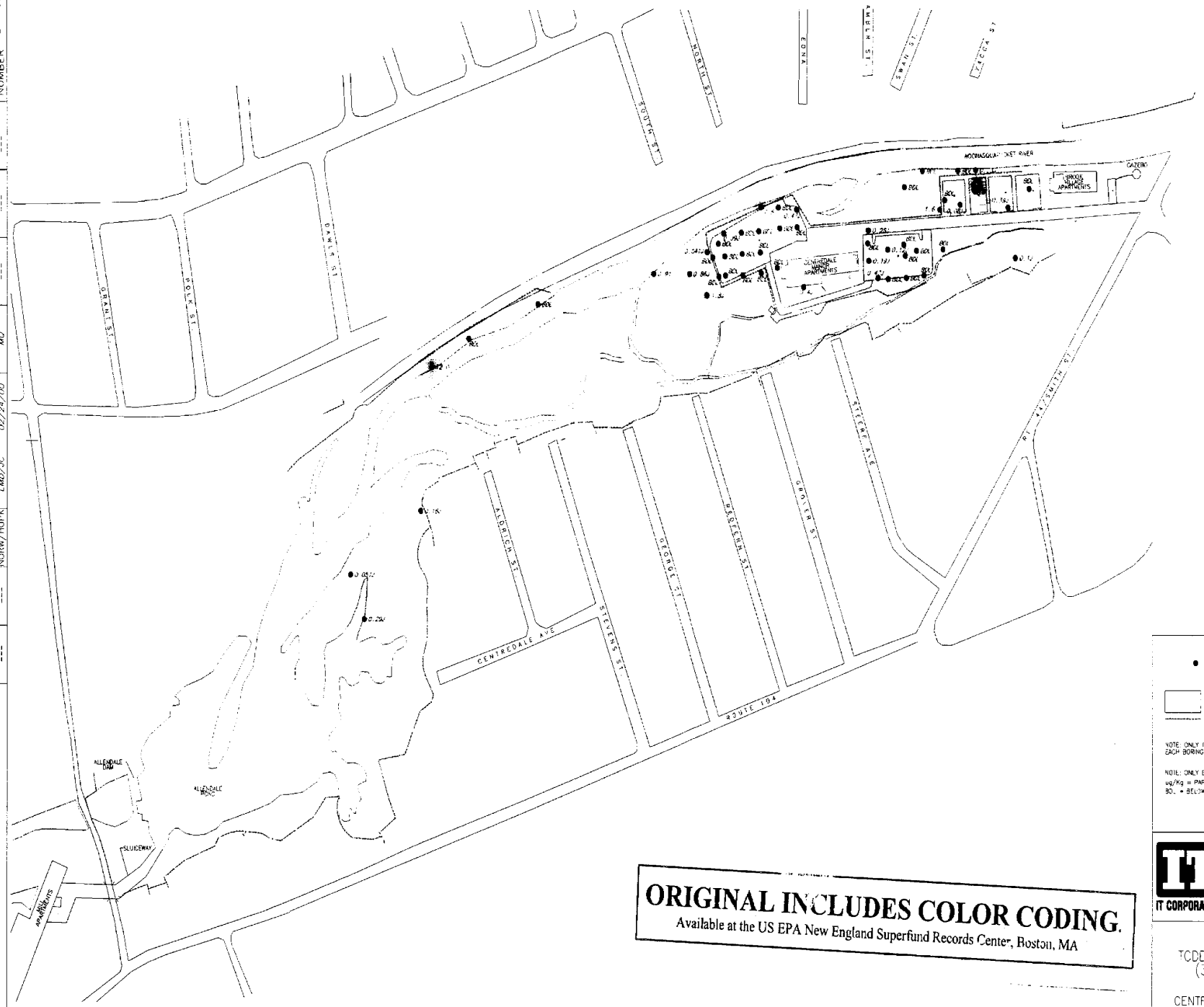
FIGURE 8c
TCDD Concentration Distribution in Soil
(2-3 feet below ground surface)
(June to November 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE | X-REF | OFFICE NORW/HOPK | DRAWN BY EMU/JC 02/24/00 | CHECKED BY MO | APPROVED BY | DRAWING NUMBER DXN_GEOSc.dwg

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



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 DIOXIN ARE SHOWN.
ug/Kg = PARTS PER BILLION
BDL = BELOW DETECTION LIMIT

SCALE
0 125 250 375 FEET

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 1999)
CENTREDALE MANOR RESTORATION PROJECT
NORTH PROVIDENCE, RHODE ISLAND

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	NORW/HOPK	CMO/JC 02/24/00	MO	---	DXN. GEOSd.dwg

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

LEGEND:

- SOIL BORING LOCATION
  EX.: CMS-155 - SOIL BORING IDENTIFICATION
- 1 ppb
- 5 ppb
- 10 ppb
- BLUE 6-7 FEET
- BUILDING OUTLINE
- FENCE

SCALE
0 125 250 375 FEET

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(508) 435-9561

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

IMAGE | X-REF | OFFICE: HOPK/NORW | DRAWN BY: EMQ/JC/EDA 02/23/00 | CHECKED BY: MQ | APPROVED BY | DRAWING NUMBER: DXN CFOSe.dwg

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

LEGEND:

TCDD
- BLANK = NO SAMPLE FOR TCDD
- ≥ 10ppb
- < 1ppb

PCBs
- BLANK = NO SAMPLE FOR PCBs
- ≥ 50ppm
- < 1ppm

* - LOCATION MOVED FOR CLARITY
LEADER DENOTES ACTUAL LOCATION

SCALE
0 125 250 375 FEET

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	HOPK/NORW	EMD/JC/EDA 10/7/99	AS	---	SymbolMap.dwg

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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