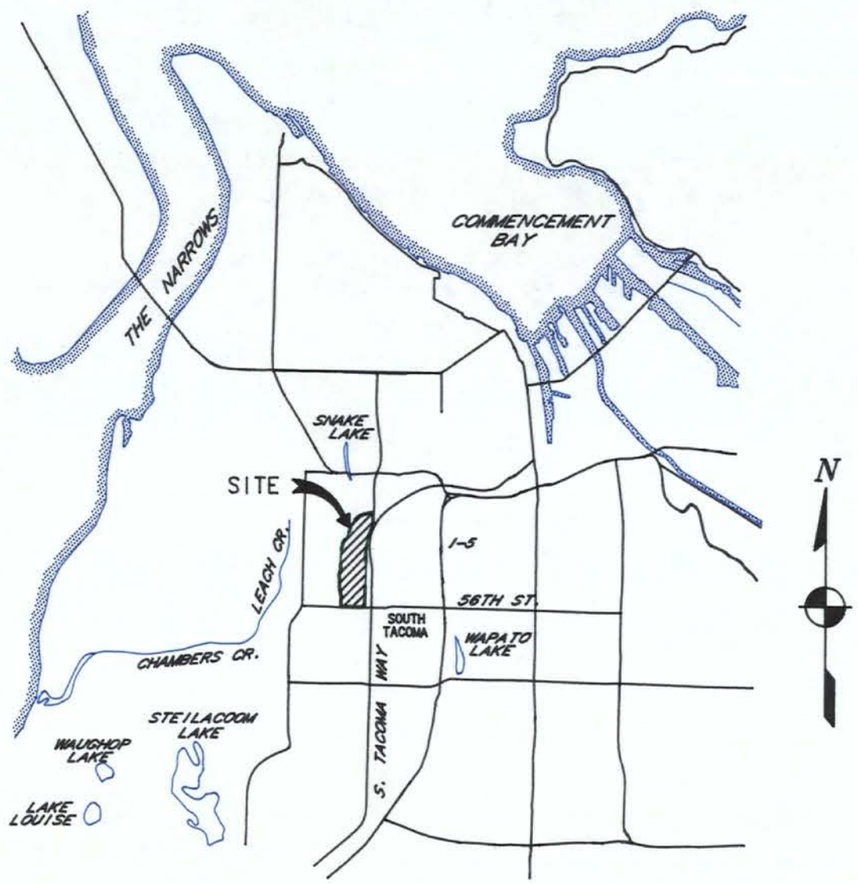
TSWSF 3.7.2.1 V1

South Tacoma Field Superfund Site

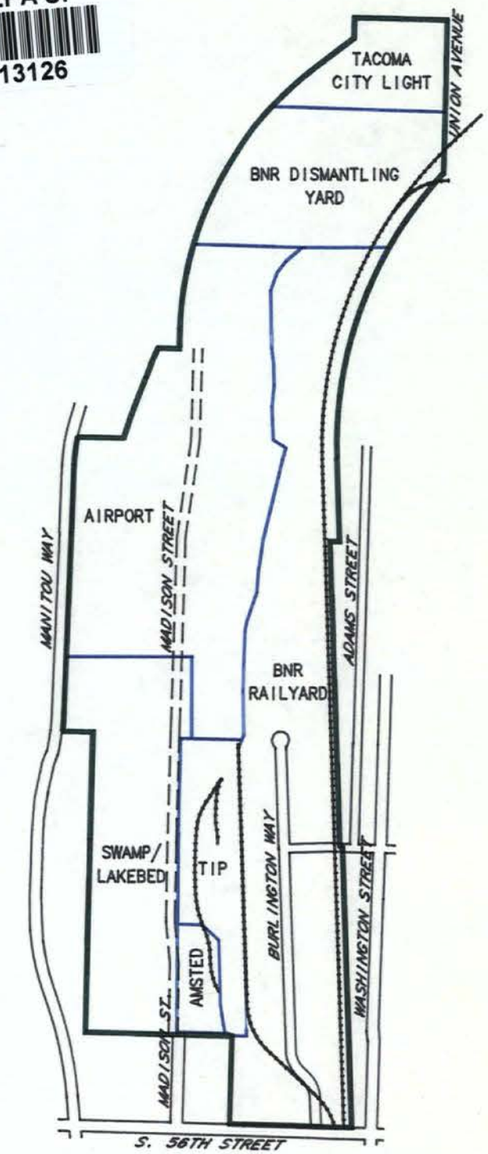
USEPA SF
1413126

Phase I Soil Investigation
REFERENCE APPENDIX

STATE OF WASHINGTON



CITY OF TACOMA



SOUTH TACOMA FIELD SITE

Kennedy/Jenks Consultants
916055.06
January 1992

SOUTH TACOMA FIELD SUPERFUND SITE REMEDIAL INVESTIGATION/FEASIBILITY STUDY

PHASE I SOIL INVESTIGATION REFERENCE APPENDIX INDEX

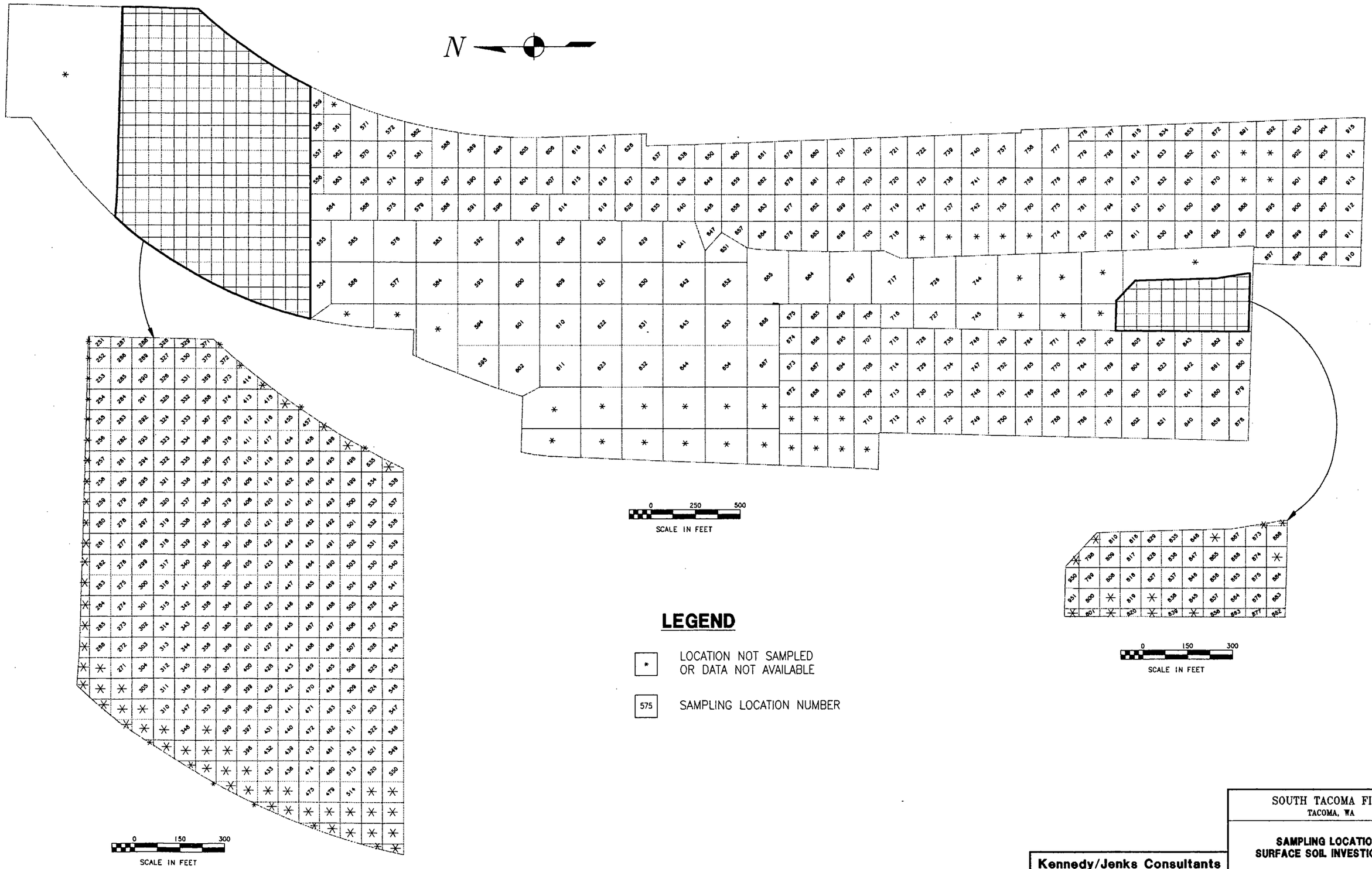
CHEMICAL DISTRIBUTION FIGURES/CHEMICAL CONCENTRATION MAPS

Reference Map 1 - Samping Locations (Grid Layout)
Reference Map 2 - Sampling Locations (Sampling Units)

INORGANICS	
Figure/Map Number	Chemical Name
1/1	Aluminum
2/2	Antimony
3/3	Arsenic
4/4	Barium
5/5	Beryllium
6/6	Boron
7/7	Cadmium
8/8	Calcium
9/9	Chromium (total)
10/10	Cobalt
11/11	Copper
12/12	Cyanide
13/13	Iron
14/14	Lead
15/15	Magnesium
16/16	Manganese
17/17	Mercury
18/18	Nickel
19/19	Potassium
20/20	Selenium
21/21	Silver
22/22	Sodium
23/23	Thallium
24/24	Vanadium
25/25	Zinc

ORGANICS	
Figure/Map Number	Chemical Name
26/26	Naphthalene
27/27	Fluorene
28/28	Phenanthrene
29/29	Anthracene
30/30	Fluoranthene
31/31	Pyrene
32/32	Benzo(a)anthracene
33/33	Chrysene
34/34	Benzo(b)fluoranthene
35/35	Benzo(k)fluoranthene
36/36	Benzo(a)pyrene
37/37	Indeno(1,2,3-cd)pyrene
38/38	Dibenzo(a,h)anthracene
39/39	Benzo(g,h,i)perylene
40/40	Total Carcinogenic PAHs
41/41	2-Methylnaphthalene
42/42	Dibenzofuran
43/43	Carbazole
44/44	Di-n-butylphthalate
45/45	Butylbenzylphthalate
46/46	Bis(2-ethylhexyl)phthalate
47/__(a)	Semivolatile TICs
48/47	Methylene Chloride
49/48	Acetone
50/49	Toluene
__(b)/50	PCBs
51/__(a)	Volatile TICs

(a) No associated chemical concentration map.
(b) No associated chemical distribution figure.



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
575	SAMPLING LOCATION NUMBER

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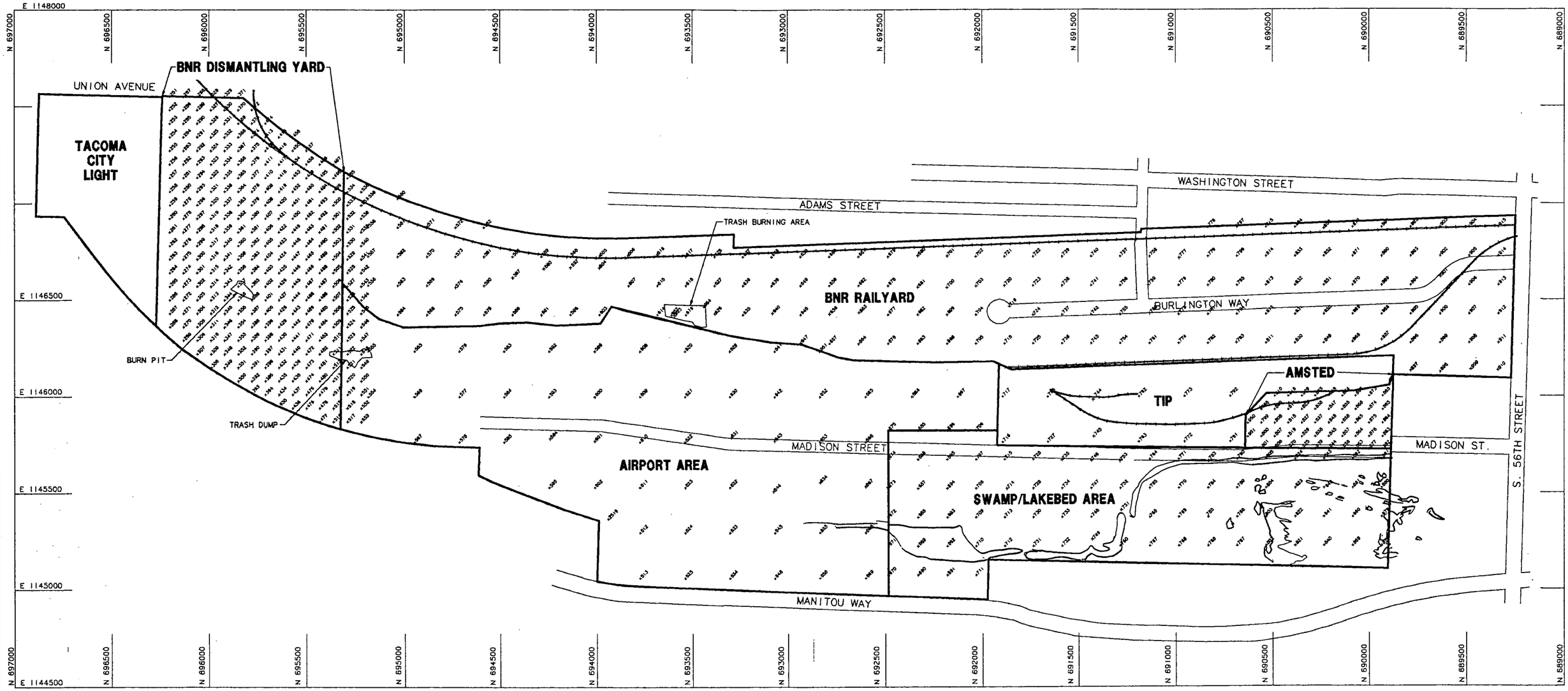
330 S. 336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale
PISK200	916055.02	AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

SAMPLING LOCATIONS
SURFACE SOIL INVESTIGATION

Drawn	Chkd.	
MBW	MJW	**REFERENCE MAP 1**
Date 12/20/91		



LEGEND

×585 SURFACE SOIL SAMPLING LOCATION AND IDENTIFICATION NUMBER

N

250 125 0 250 500 750

SCALE IN FEET

NOTE:

1. COMPOSITE SAMPLES WERE COLLECTED FROM THE BNR DISMANTLING YARD AND AMSTED. SAMPLE LOCATIONS IN THESE UNITS REPRESENT THE CENTER OF EACH GRID. ALL OTHER LOCATIONS ARE THE ACTUAL SAMPLE COLLECTION POINTS.

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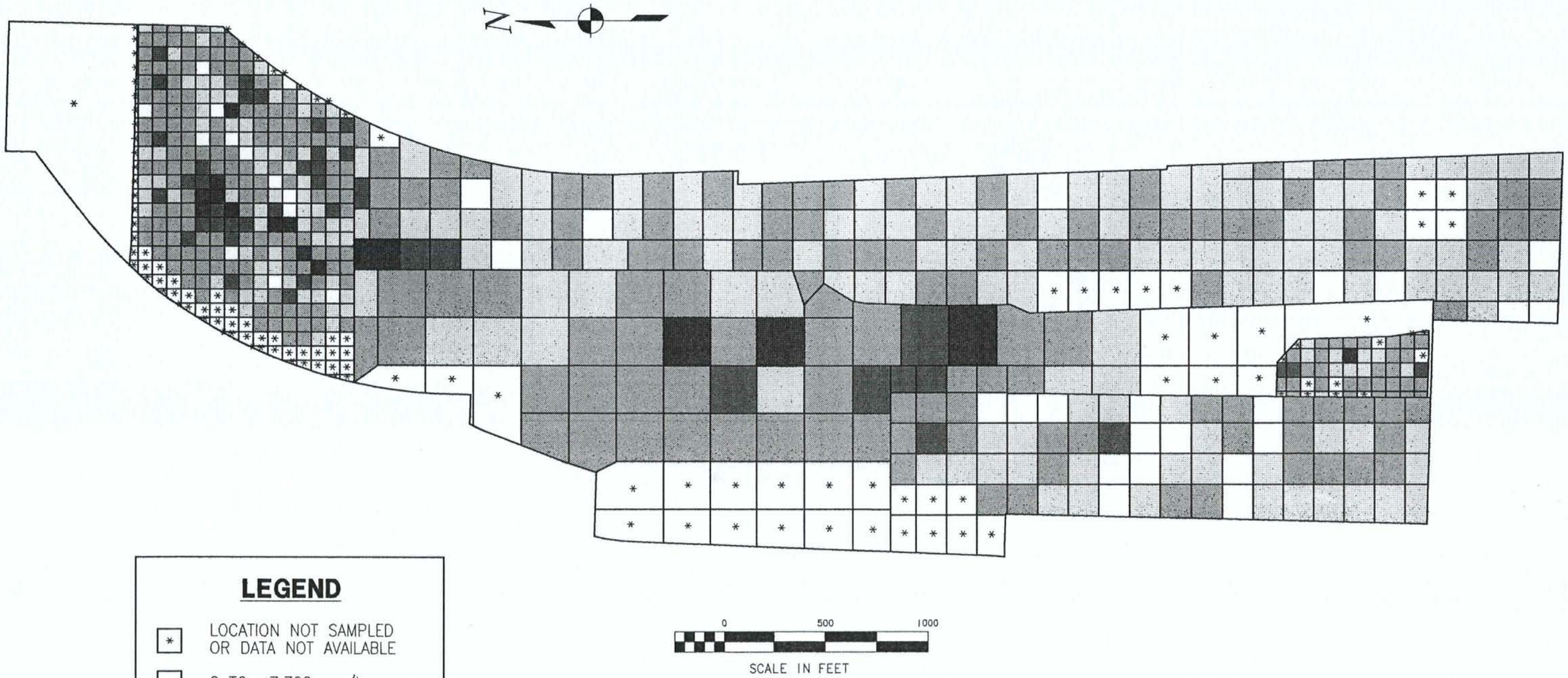
File name P1SK101 | Job No. 916055.06 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

SAMPLING LOCATIONS
SURFACE SOIL INVESTIGATION

Drawn MBW | Chkd. MJW | Date 12/20/91

REFERENCE MAP 2



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <7,700 mg/kg
- 7,700 TO <11,800 mg/kg
- 11,800 TO <19,000 mg/kg
- 19,000 TO <24,000 mg/kg
- ≥ 24,000 mg/kg

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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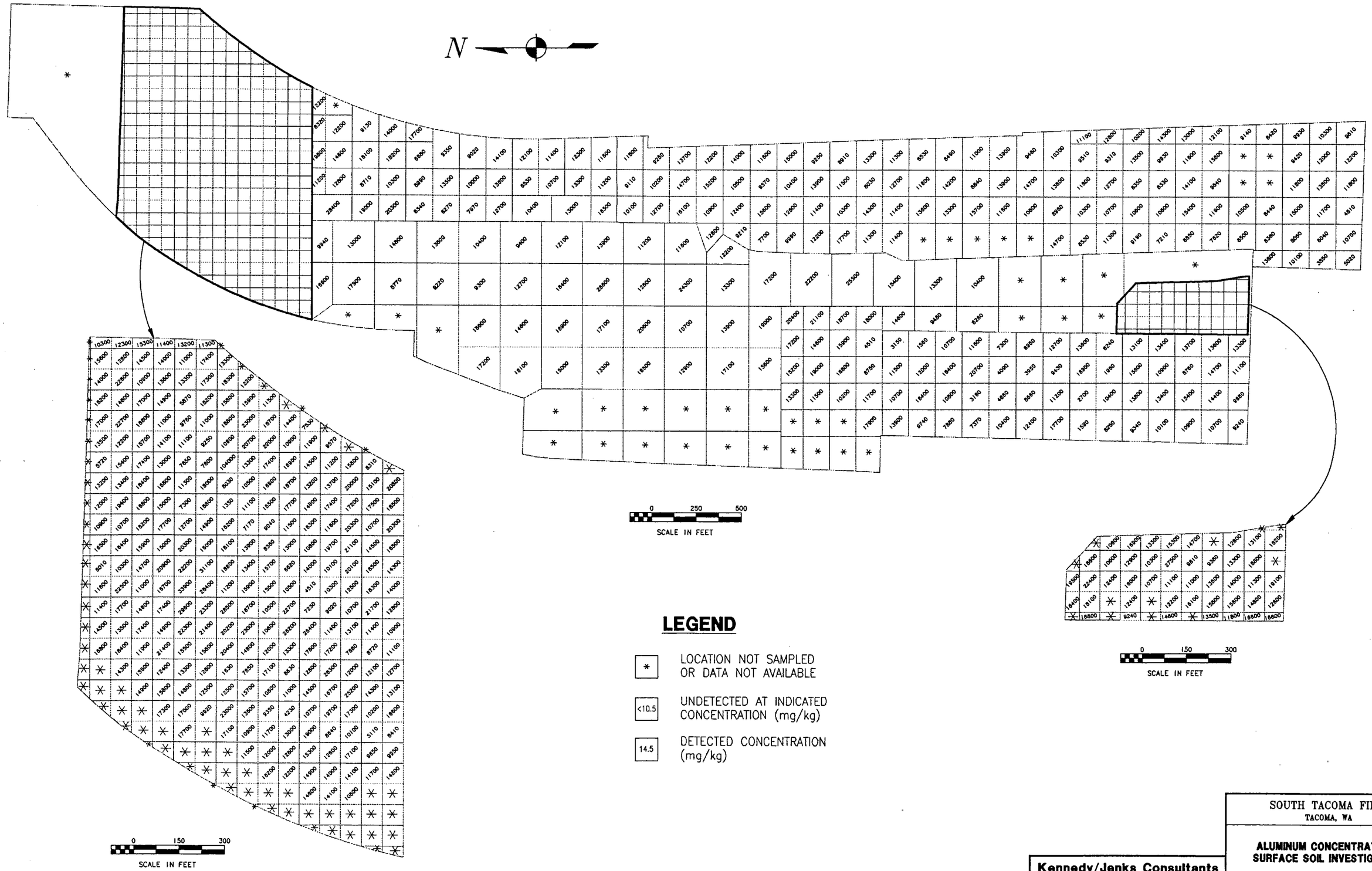
SOUTH TACOMA FIELD
TACOMA, WA

ALUMINUM DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK270

FIGURE 1



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

ALUMINUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

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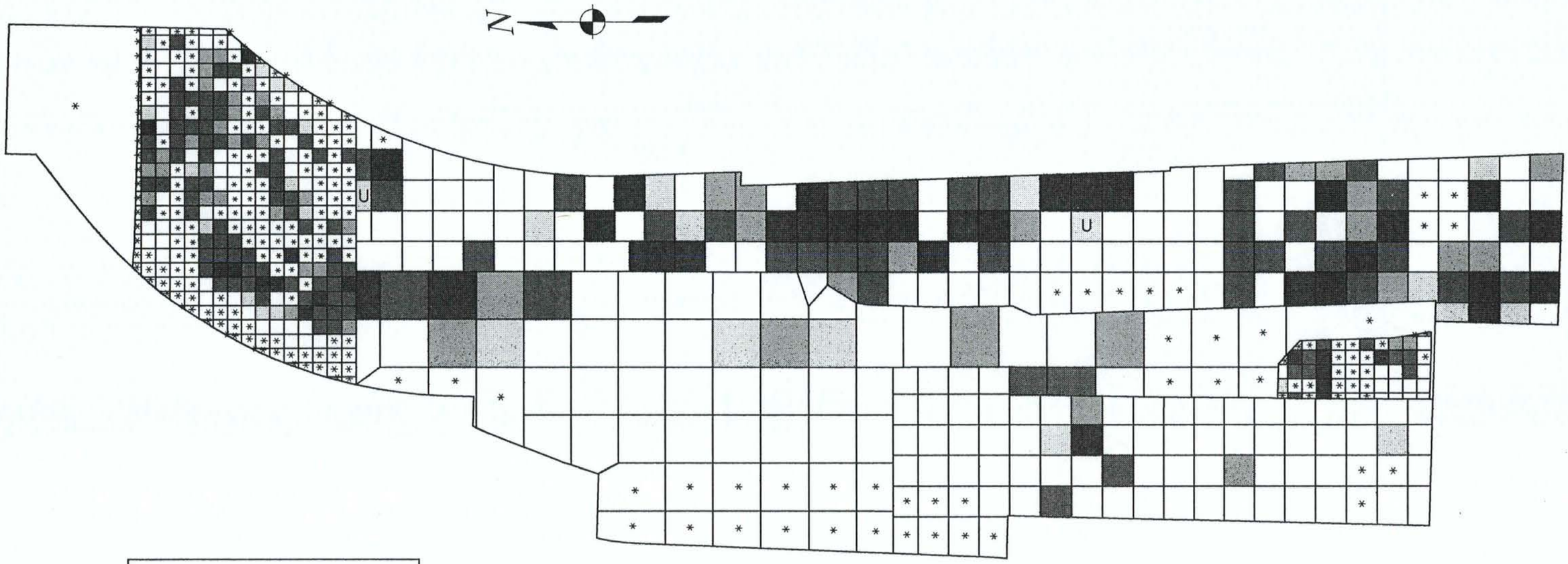
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date
PISK225	918055.02	AS SHOWN	MBW	MJW	12/20/91

MAP 1



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <6.3 mg/kg
- 6.3 TO <7.5 mg/kg
- 7.5 TO <10.0 mg/kg
- 10.0 TO <20.0 mg/kg
- ≥ 20.0 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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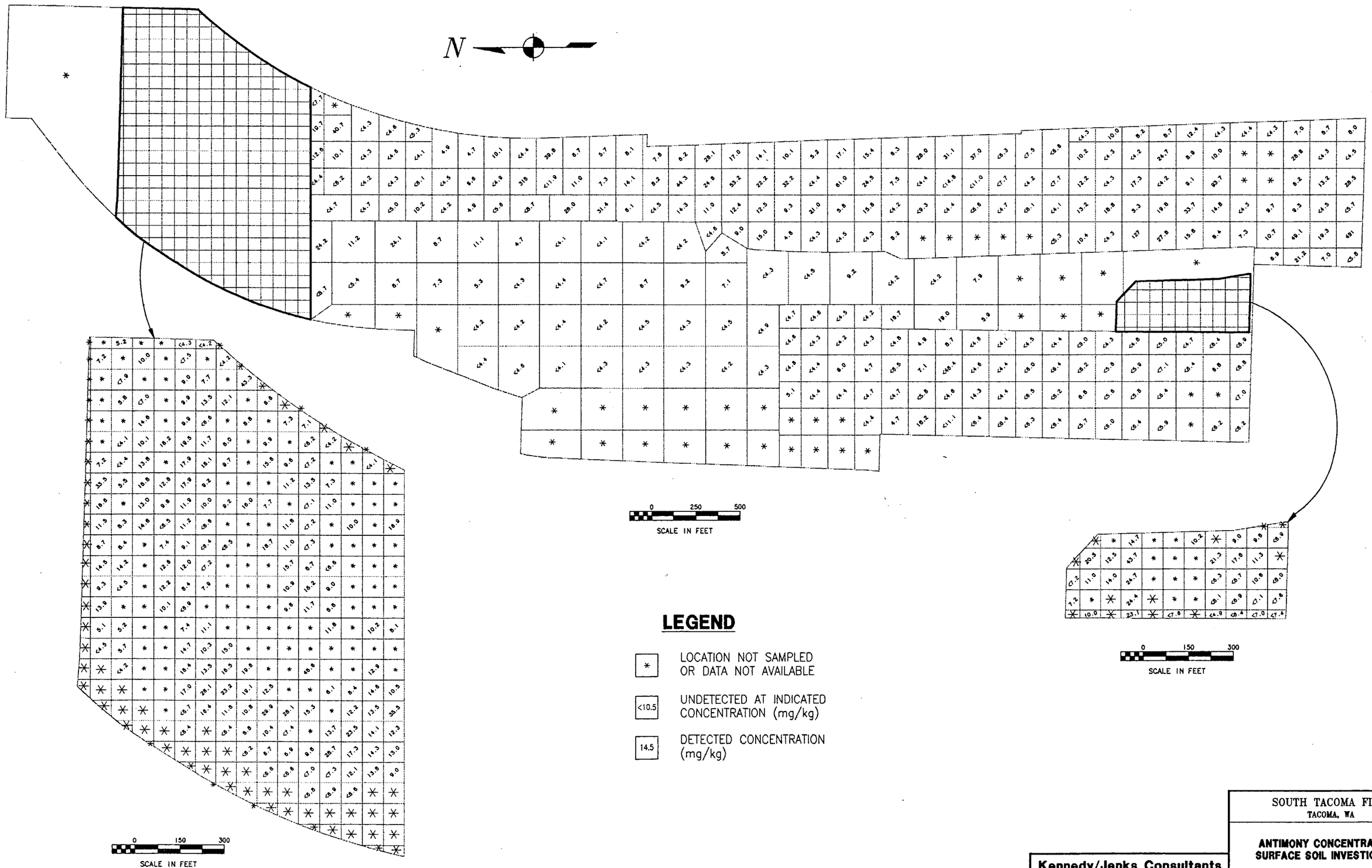
SOUTH TACOMA FIELD
TACOMA, WA

ANTIMONY DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK271

FIGURE 2



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

ANTIMONY CONCENTRATIONS SURFACE SOIL INVESTIGATION

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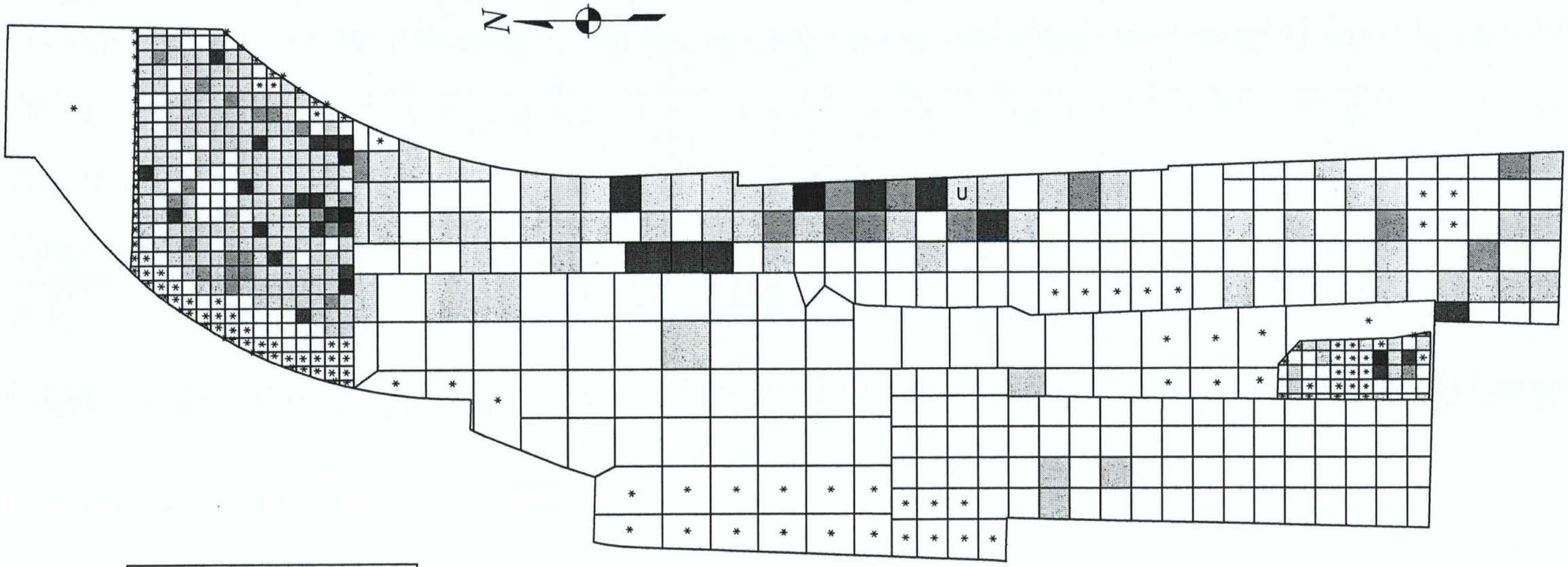
530 S.338TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date
PISK249	916055.02	AS SHOWN	GAL	MJW	12/20/91

MAP 2



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <20.0 mg/kg
- 20.0 TO <55.0 mg/kg
- 55.0 TO <73.0 mg/kg
- 73.0 TO <170 mg/kg
- ≥ 170 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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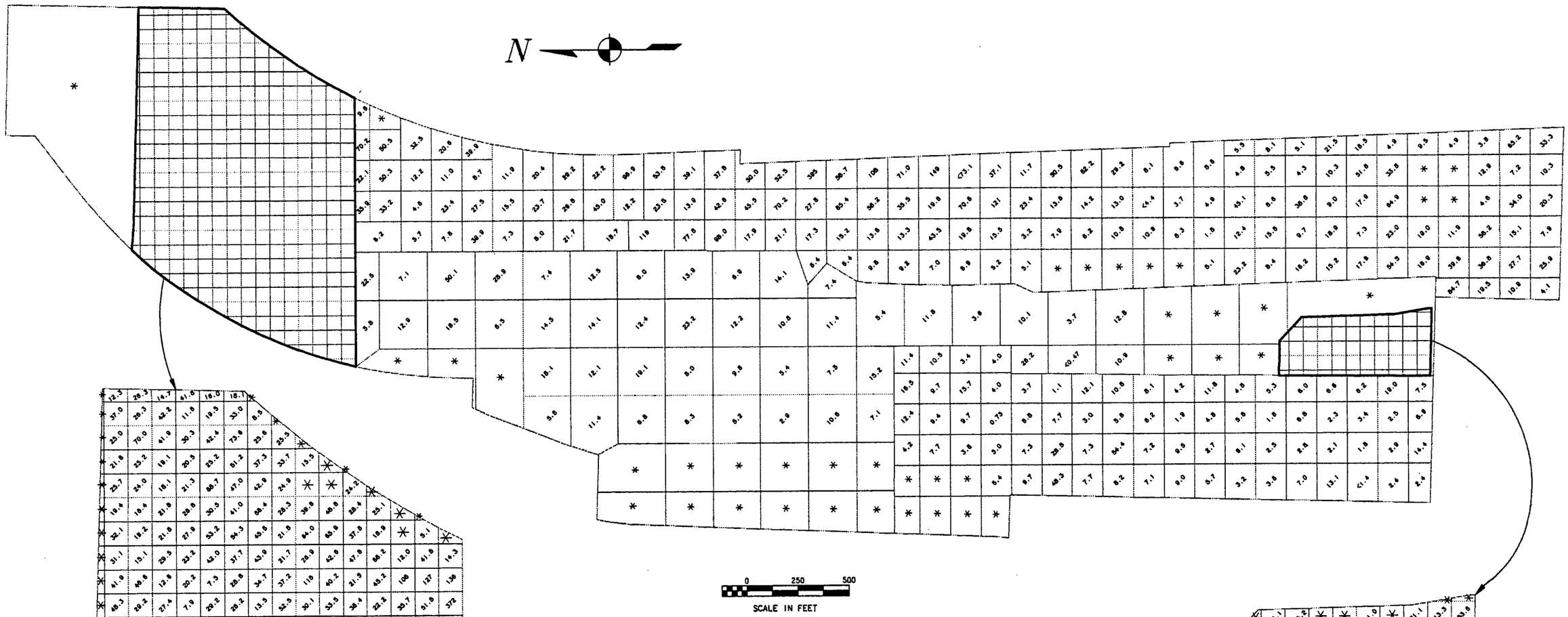
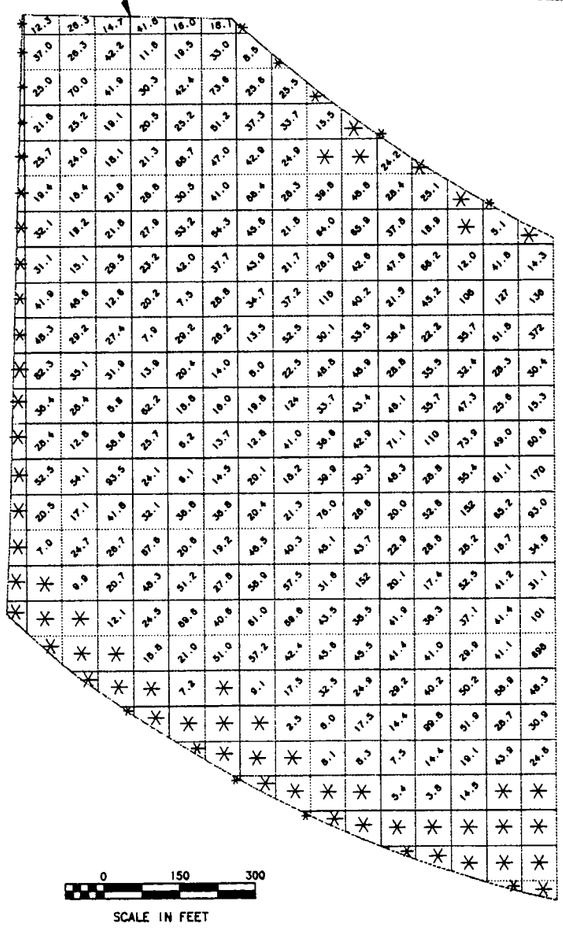
SOUTH TACOMA FIELD
TACOMA, WA

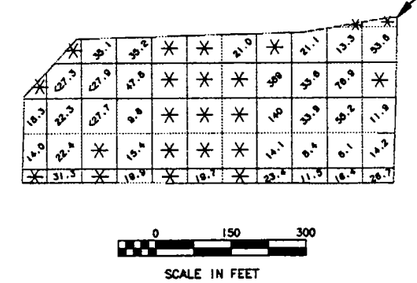
ARSENIC DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK272

FIGURE 3







LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

ARSENIC CONCENTRATIONS SURFACE SOIL INVESTIGATION

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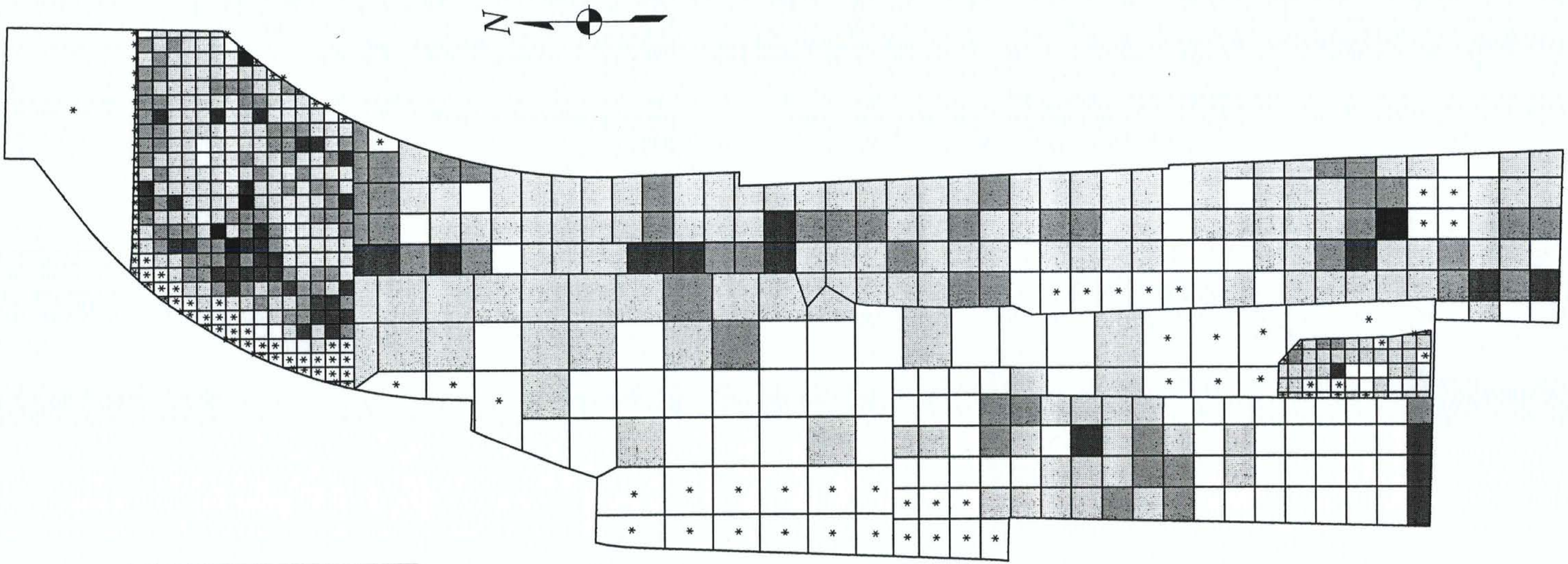
File name	Job No.	Scale	Drawn	Chkd.	Date
PISK227	916055.02	AS SHOWN	MBW	MJW	12/20/91

MAP 3



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <85.0 mg/kg
- 85.0 TO <270 mg/kg
- 270 TO <570 mg/kg
- 570 TO <1500 mg/kg
- ≥ 1500 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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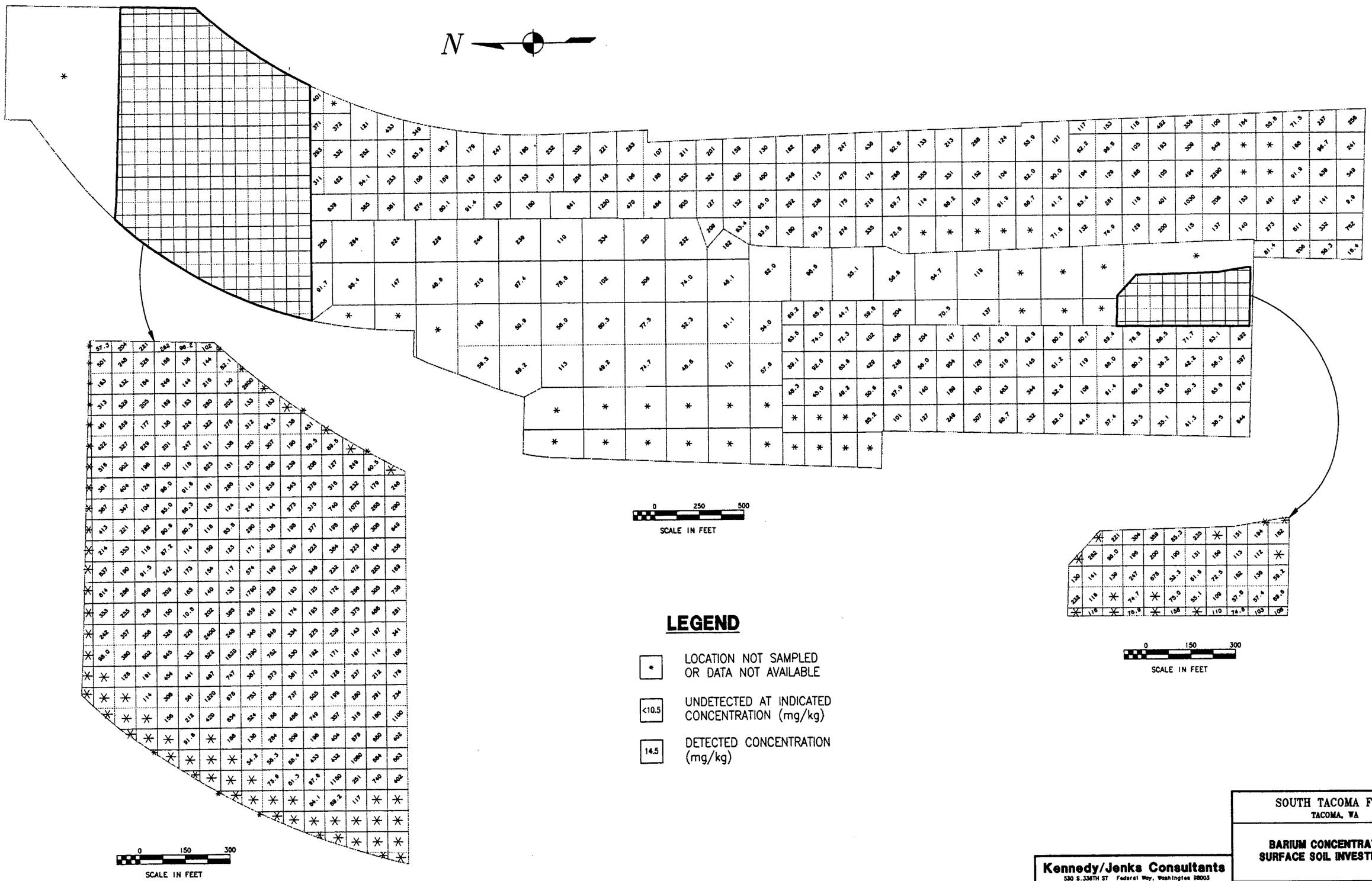
SOUTH TACOMA FIELD
TACOMA, WA

BARIUM DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK273

FIGURE 4



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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(206) 874-0555

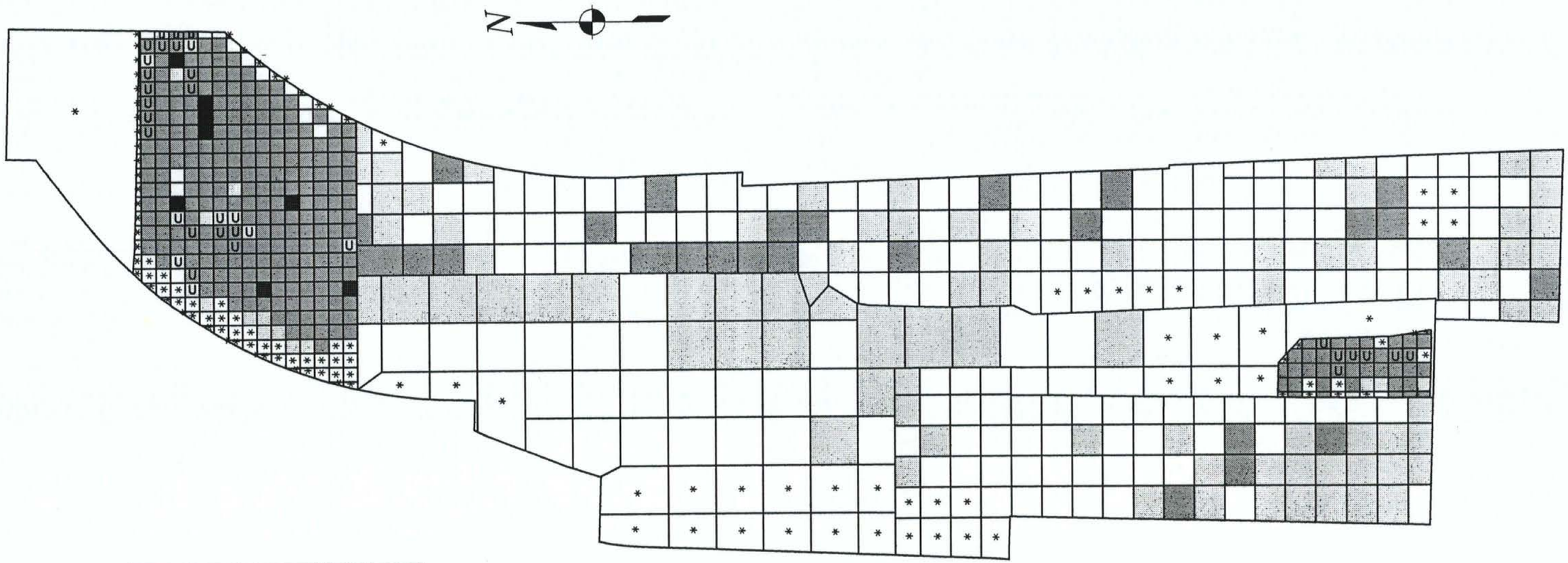
File name PISK228 | Job No. 916055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

BARIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn MEW | Chkd. MJW
Date 12/20/91

MAP 4



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <0.35 mg/kg
- 0.35 TO <0.60 mg/kg
- 0.60 TO <3.7 mg/kg
- ≥ 3.7 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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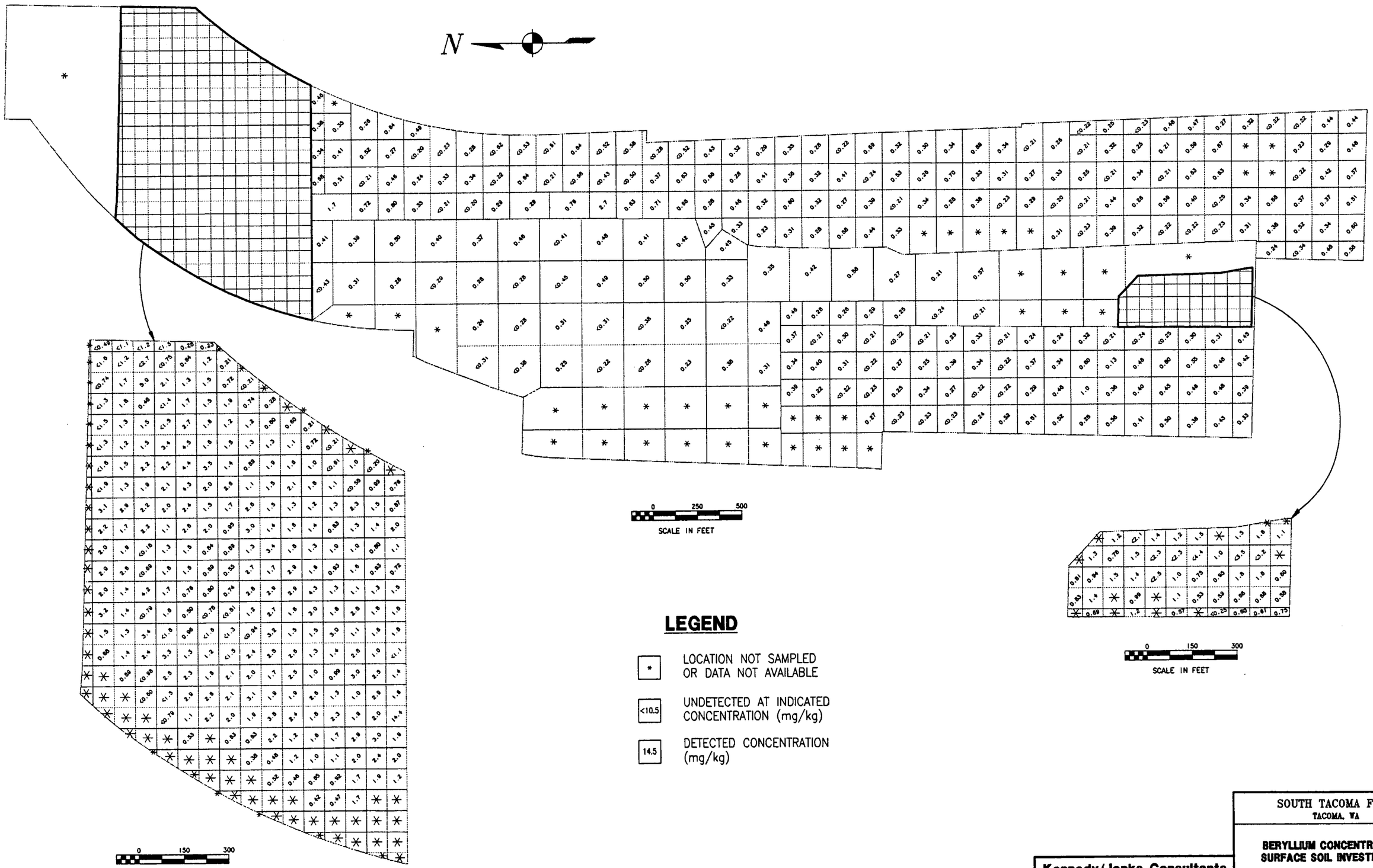
SOUTH TACOMA FIELD
TACOMA, WA

BERYLLIUM DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK274

FIGURE 5



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

BERYLLIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

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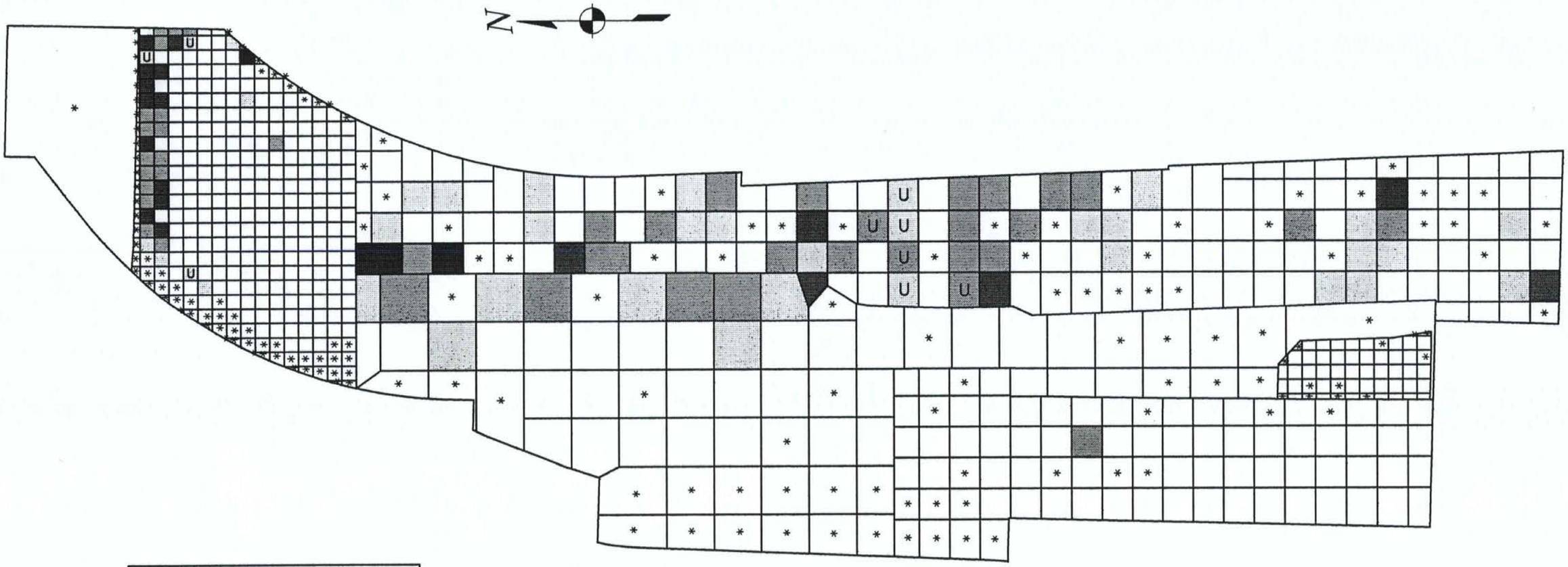
File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK229	916055.02	AS SHOWN	CMW	MJW	12/20/91	MAP 5



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <6.0 mg/kg
- 6.0 TO <13.0 mg/kg
- 13.0 TO <48.0 mg/kg
- 48.0 TO <150 mg/kg
- ≥ 150 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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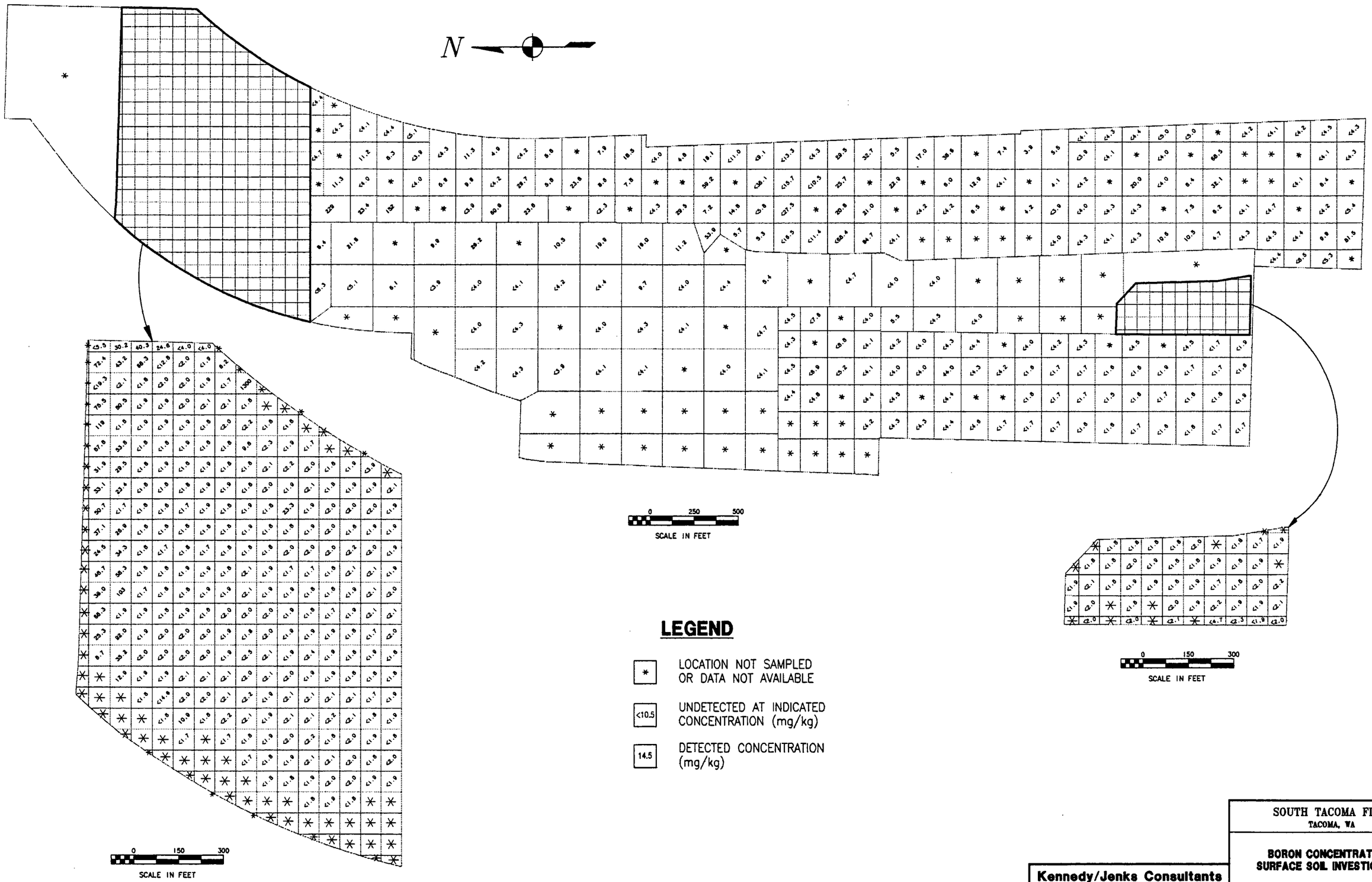
SOUTH TACOMA FIELD
TACOMA, WA

BORON DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK293

FIGURE 6



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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(206) 874-0555

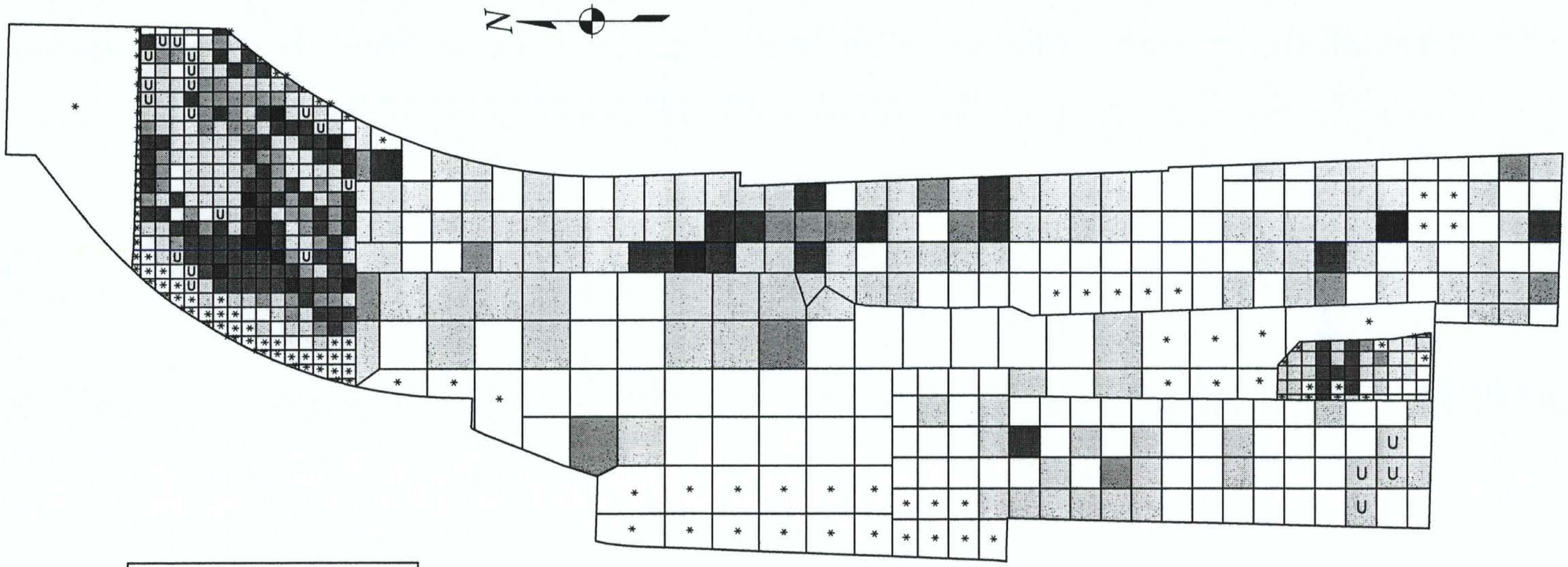
File name P1SK248 | Job No. 916055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

BORON CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn GAL | Chkd. MJW | Date 12/20/91

MAP 6



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <0.60 mg/kg
- 0.60 TO <2.9 mg/kg
- 2.9 TO <4.5 mg/kg
- 4.5 TO <14.0 mg/kg
- ≥ 14.0 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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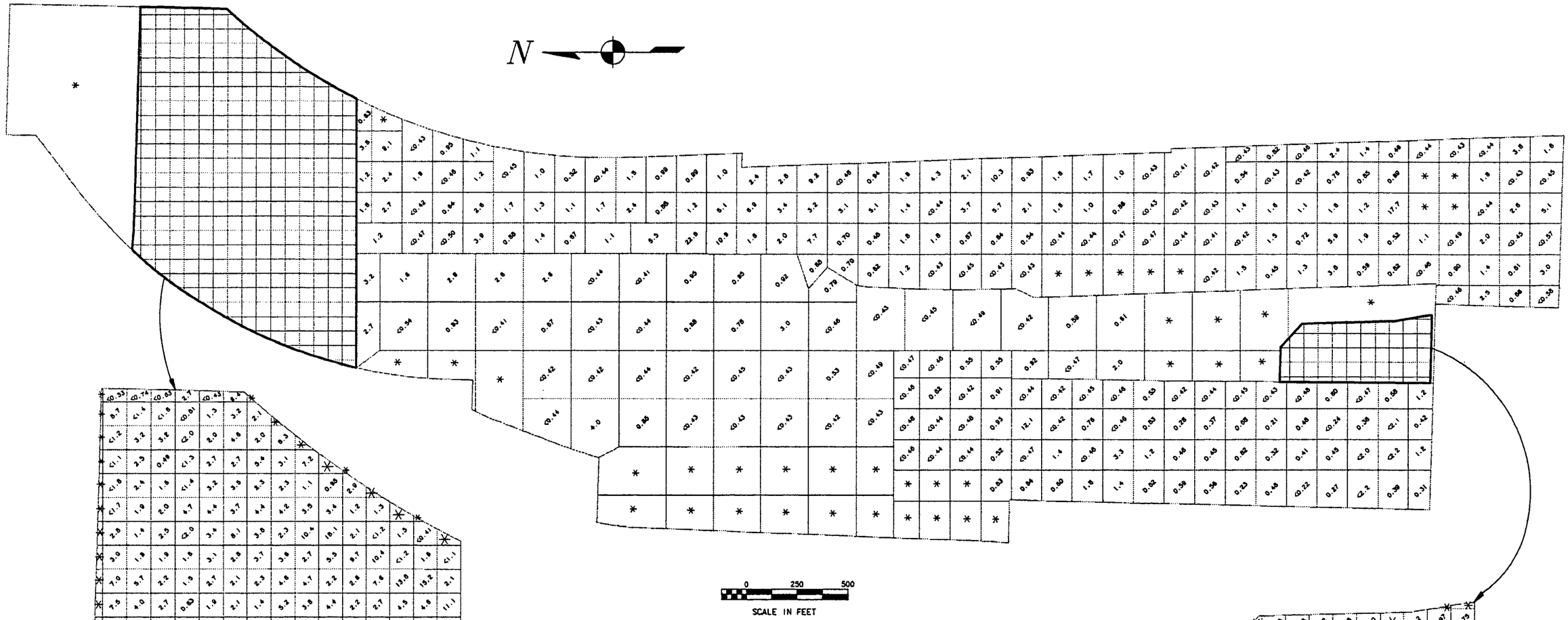
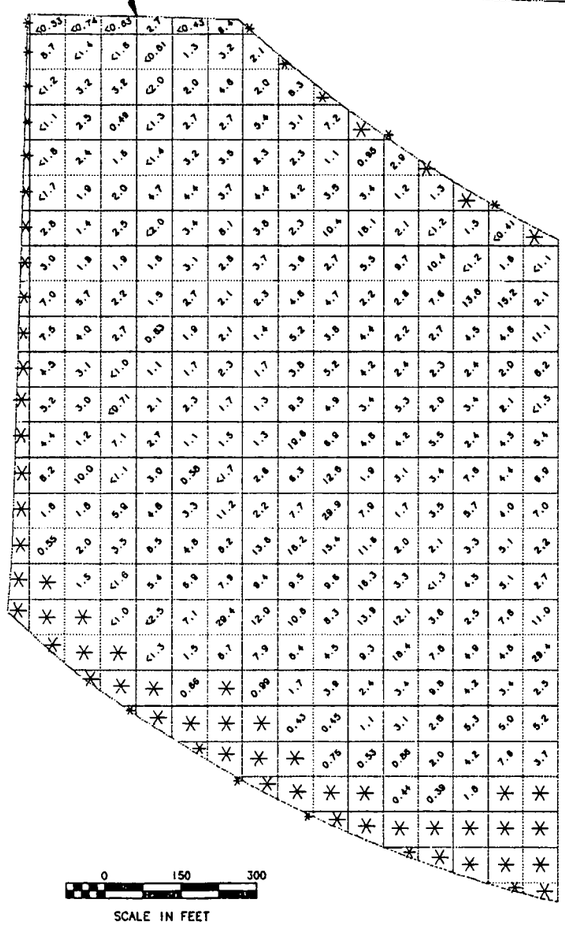
SOUTH TACOMA FIELD
TACOMA, WA

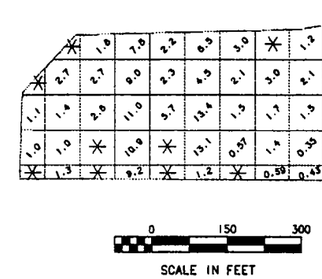
CADMIUM DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK275

FIGURE 7







LEGEND

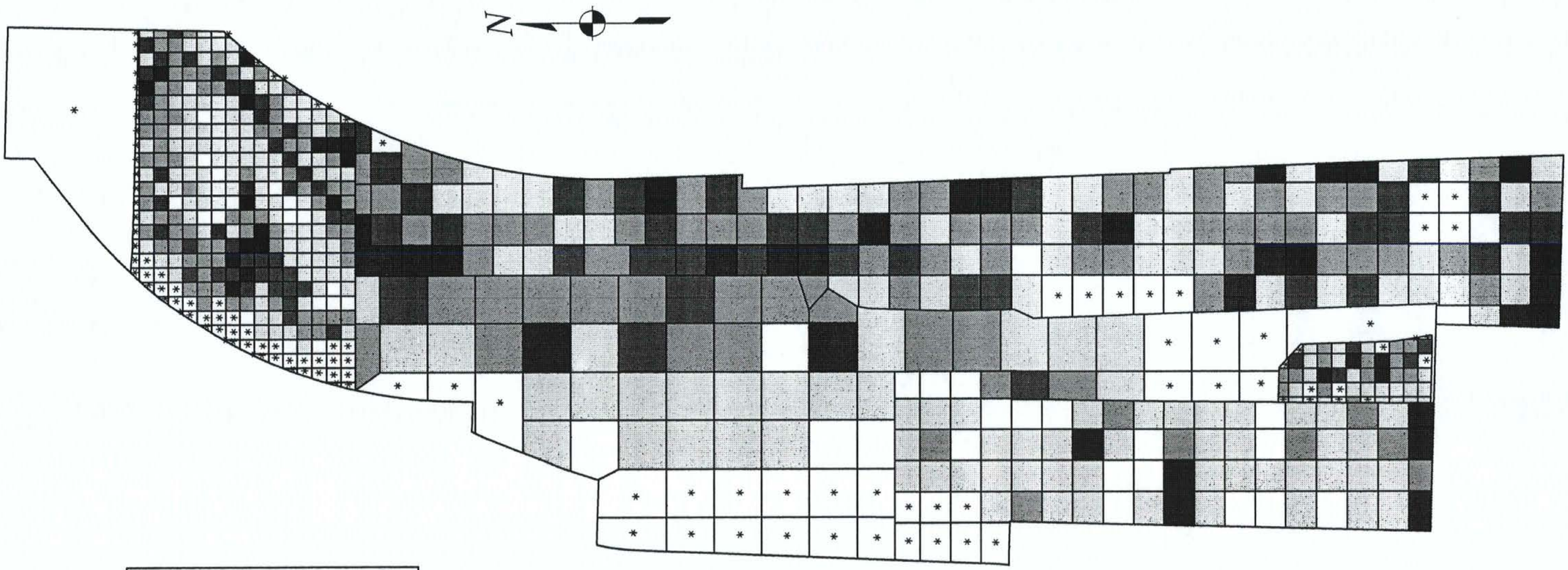
*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

CADMIUM CONCENTRATIONS
SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK230	916055.02	AS SHOWN	MEW	MJW	12/20/91	MAP 7



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO 2,600 mg/kg
- 2,600 TO <4,750 mg/kg
- 4,750 TO <7,400 mg/kg
- 7,400 TO <11,300 mg/kg
- ≥ 11,300 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

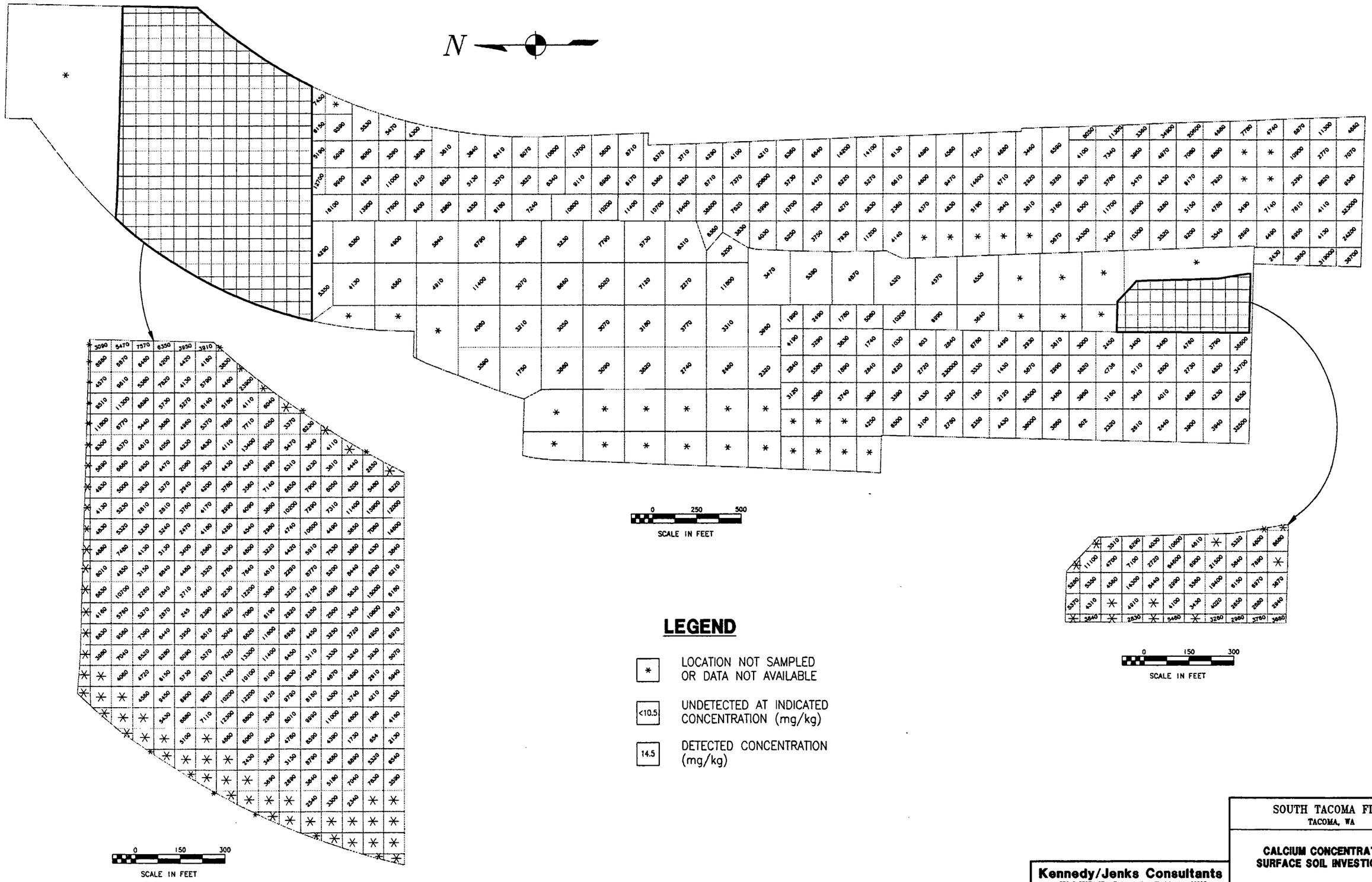
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

CALCIUM DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK287

FIGURE 8



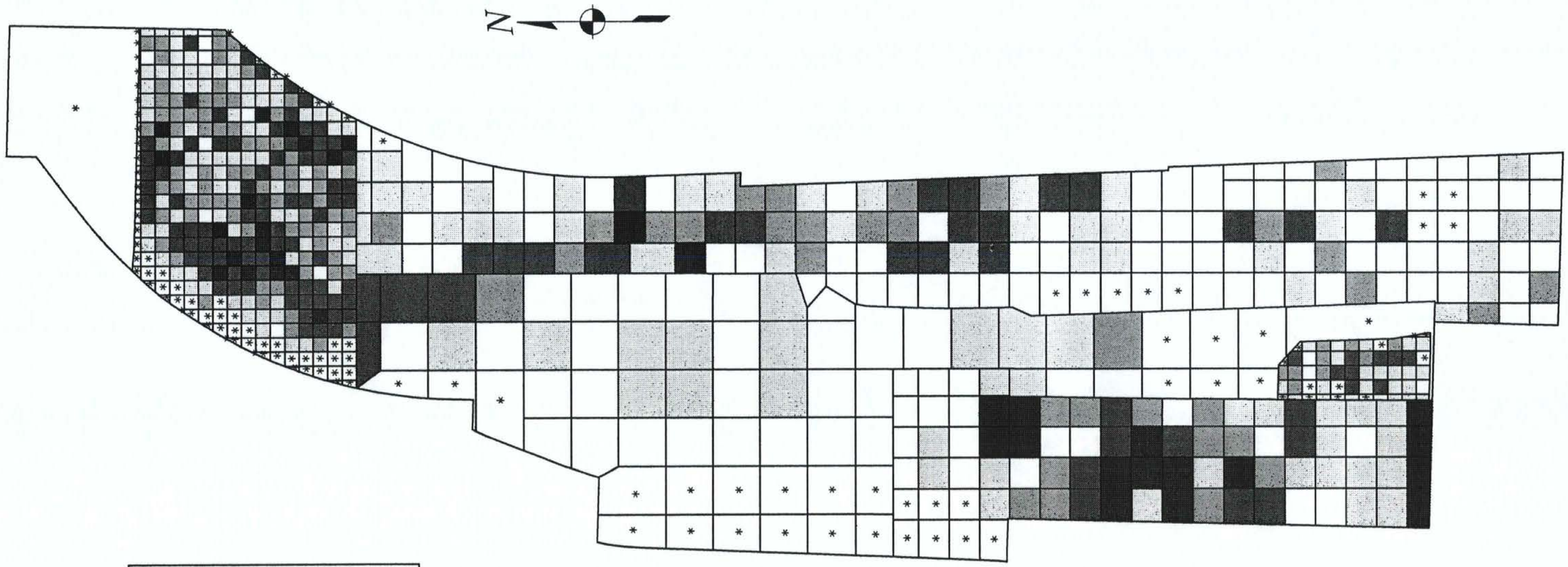
SOUTH TACOMA FIELD
TACOMA, WA

CALCIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
330 S. 336TH ST Federal Way, Washington 98003
(206) 874-0533

File name	Job No.	Scale	Drawn	Chkd.	Date
PISK242	918055.02	AS SHOWN	GAL	WJW	12/20/91

MAP 8



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <24.0 mg/kg
- 24.0 TO <36.0 mg/kg
- 36.0 TO <55.0 mg/kg
- 55.0 TO <135 mg/kg
- ≥ 135 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

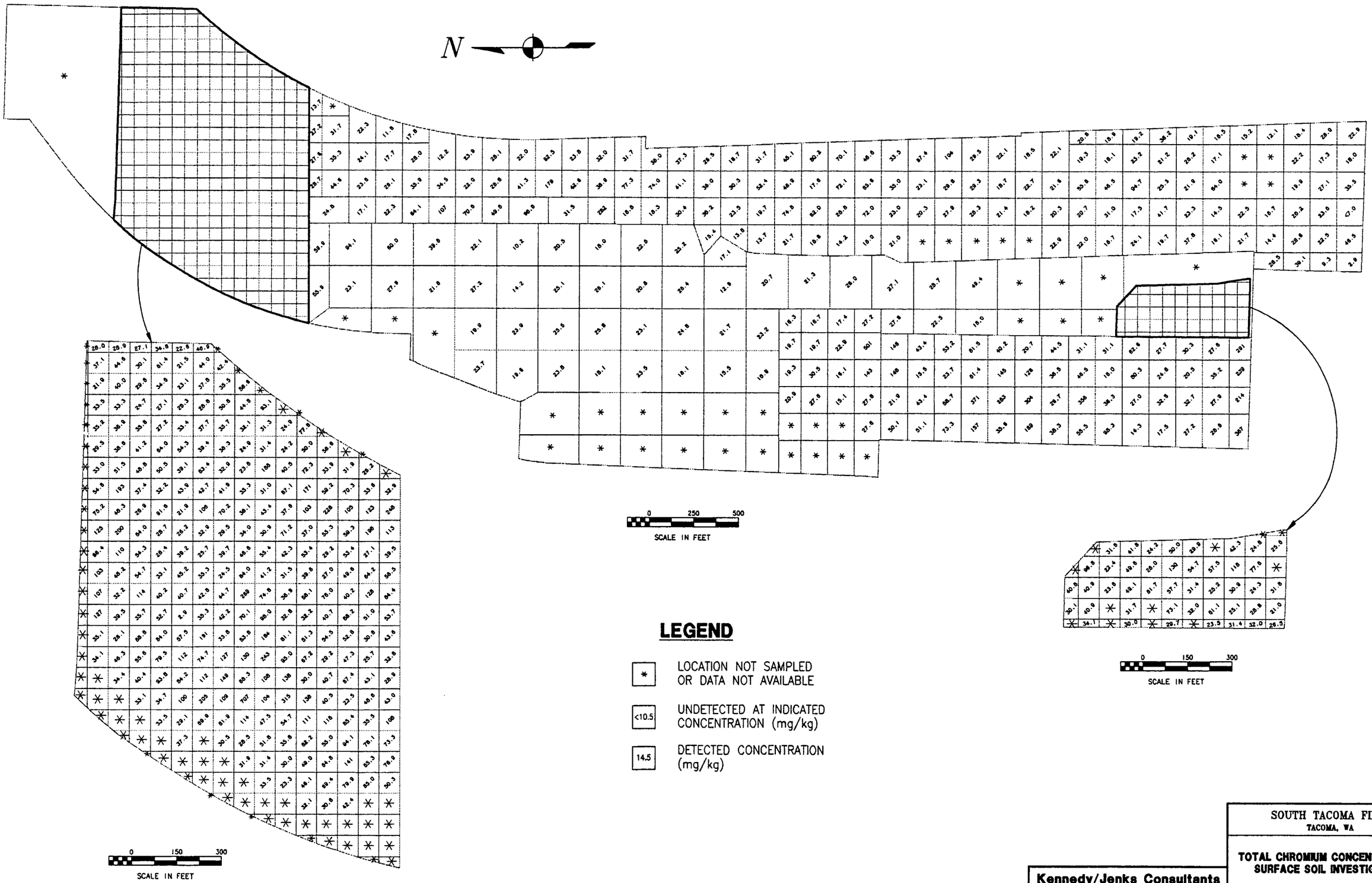
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

TOTAL CHROMIUM DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK276

FIGURE 9



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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530 S.336TH ST Federal Way, Washington 98003
(206) 874-0565

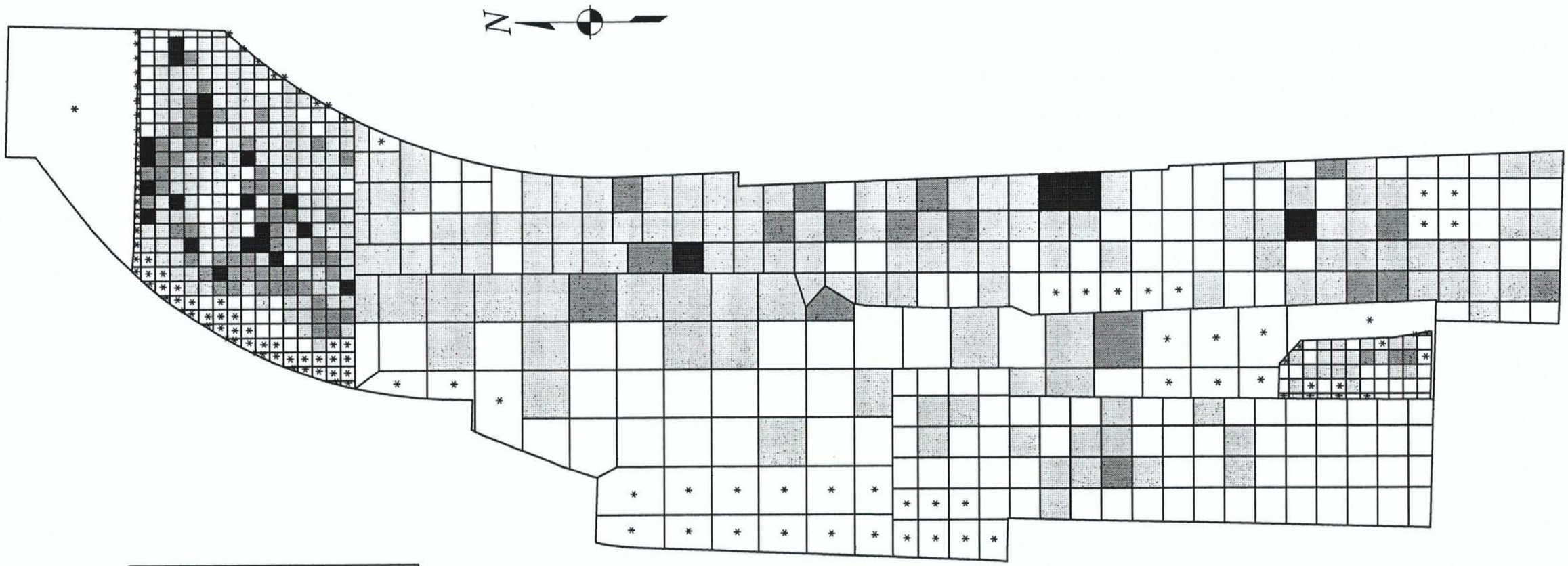
File name PISK231 | Job No. 916055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

TOTAL CHROMIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

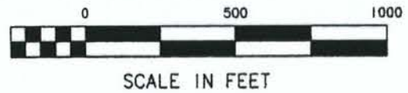
Drawn MBW | Chkd. MJW | Date 12/20/91

MAP 9



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <8.3 mg/kg
- 8.3 TO <15.0 mg/kg
- 15.0 TO <22.0 mg/kg
- ≥ 22.0 mg/kg



NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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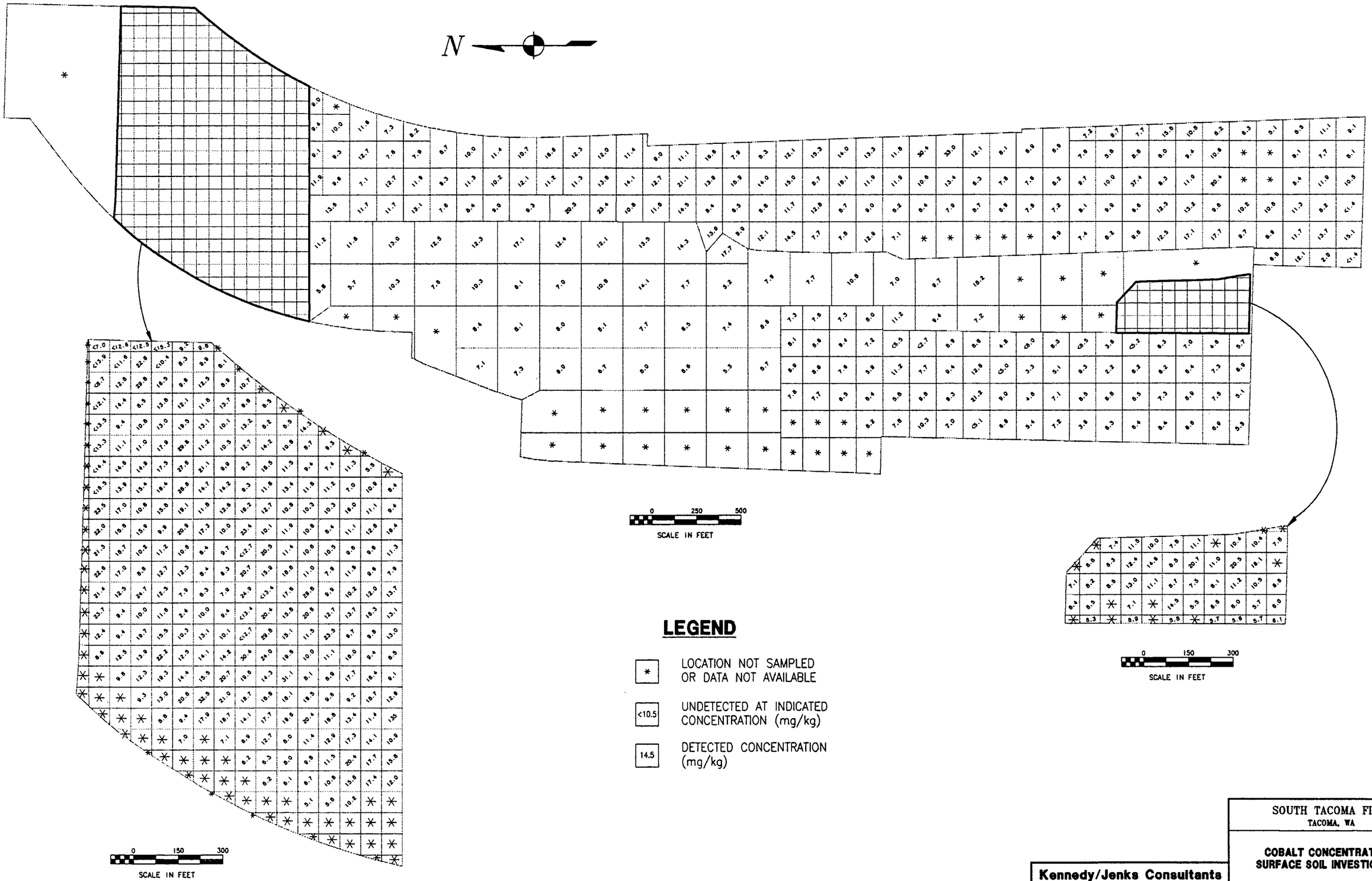
SOUTH TACOMA FIELD
TACOMA, WA

COBALT DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK288

FIGURE 10



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

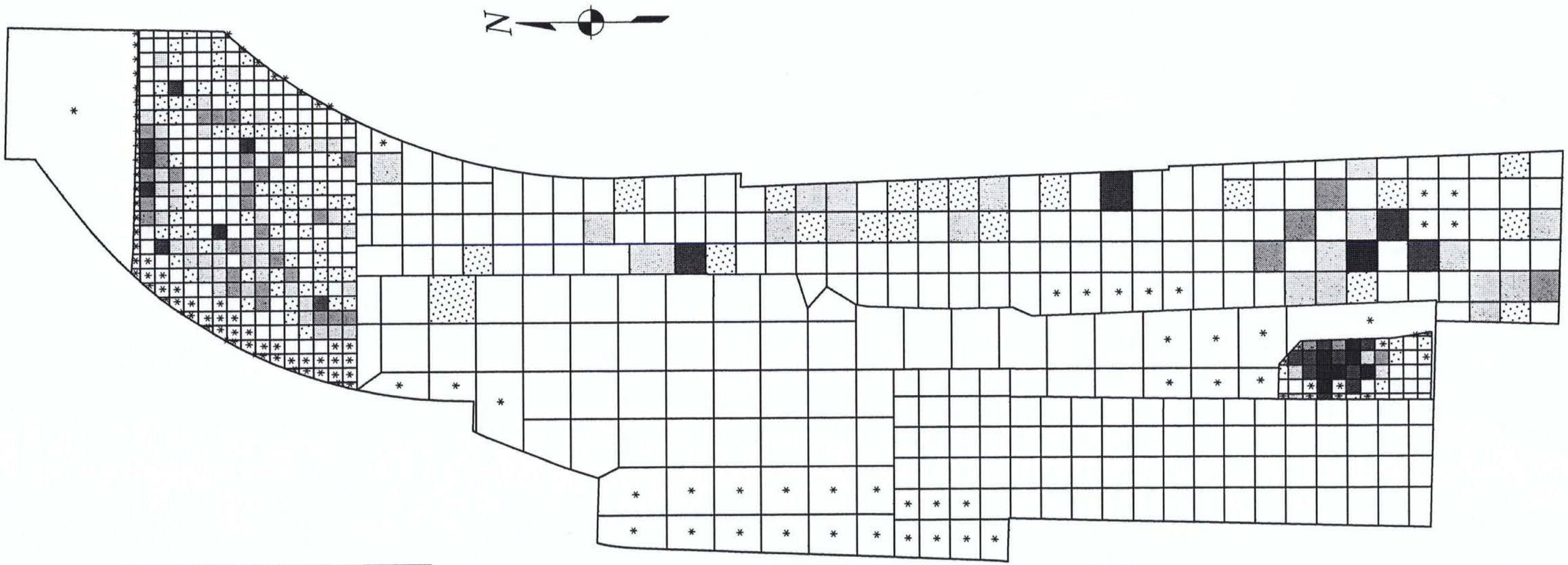
SOUTH TACOMA FIELD
TACOMA, WA

COBALT CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
830 S. 336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK243	916055.02	AS SHOWN	GAL	MJW	12/20/91

MAP 10



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <245 mg/kg
- 245 TO <460 mg/kg
- 460 TO <1,000 mg/kg
- 1,000 TO <3,000 mg/kg
- 3,000 TO <13,000 mg/kg
- ≥ 13,000 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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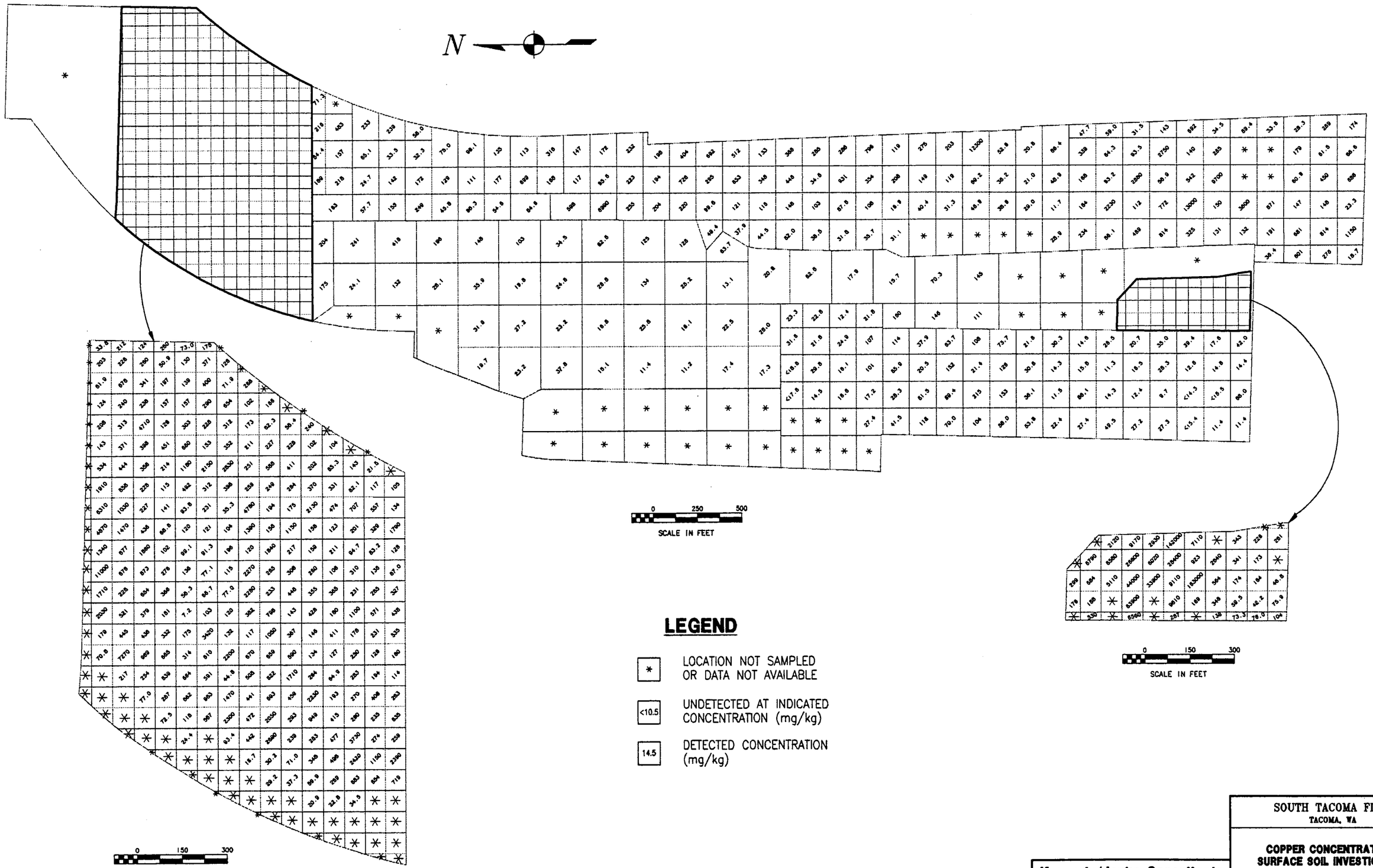
SOUTH TACOMA FIELD
TACOMA, WA

COPPER DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK277

FIGURE 11



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

COPPER CONCENTRATIONS SURFACE SOIL INVESTIGATION

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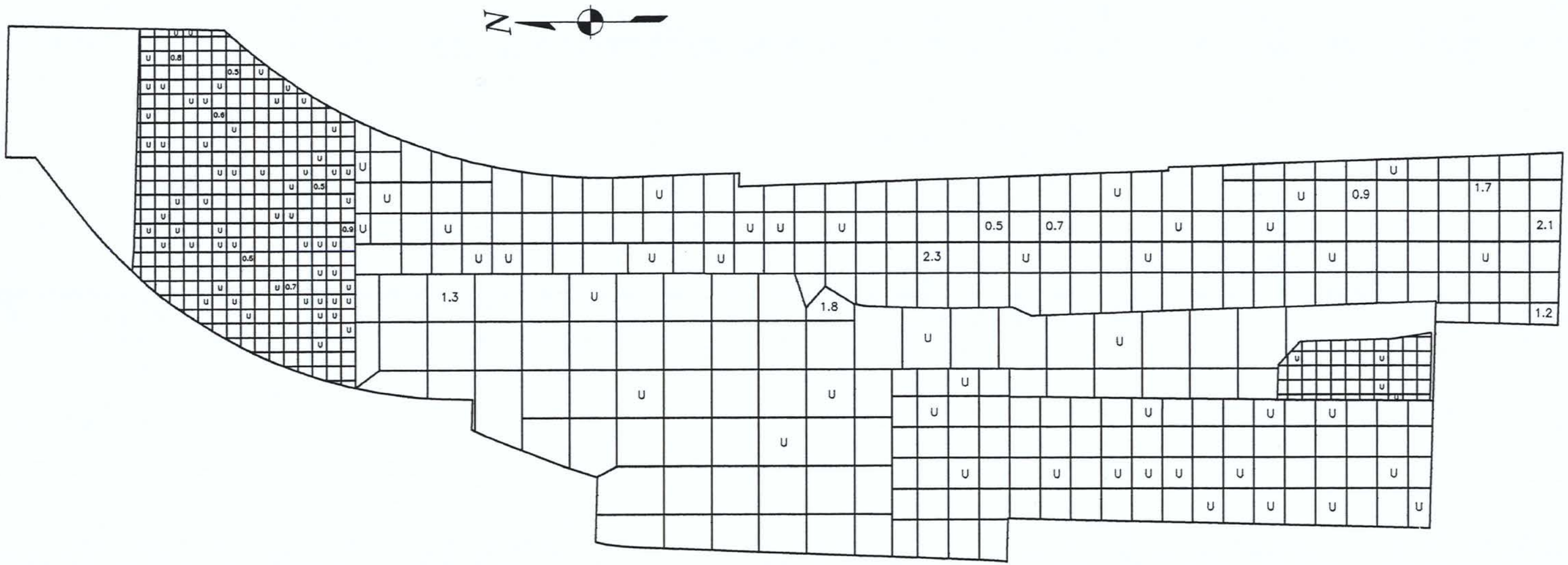
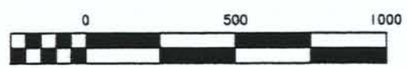
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK232	918055.02	AS SHOWN	CMW	MJW	12/20/91	MAP 11



LEGEND

2.2	CYANIDE CONCENTRATION (mg/kg)
U	UNDETECTED VALUES



SCALE IN FEET

NOTE:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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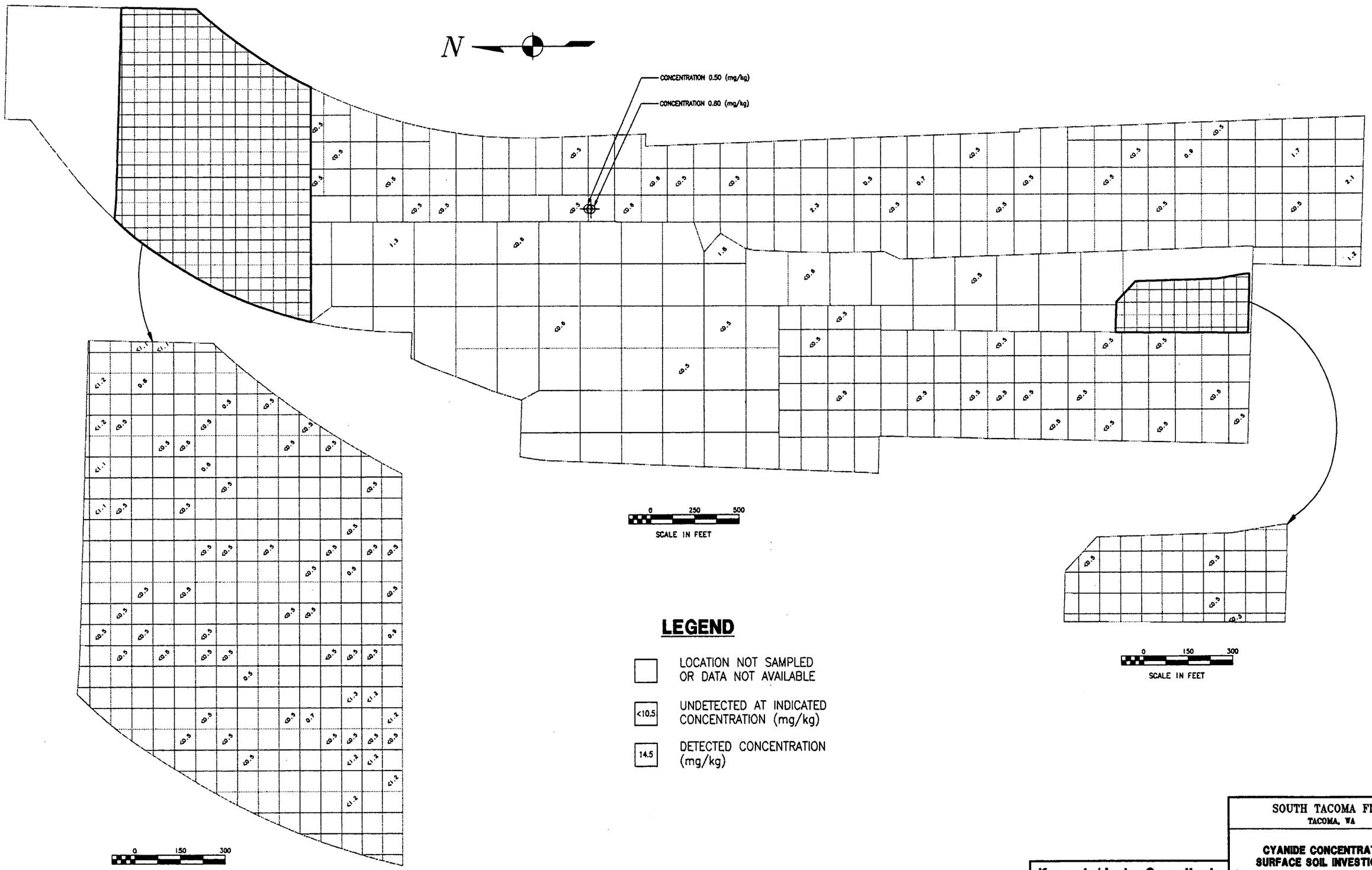
SOUTH TACOMA FIELD
TACOMA, WA

CYANIDE CONCENTRATIONS
SURFACE SOIL INVESTIGATION

916055.02/P1SK307

FIGURE 12



LEGEND

	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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(206) 874-0556

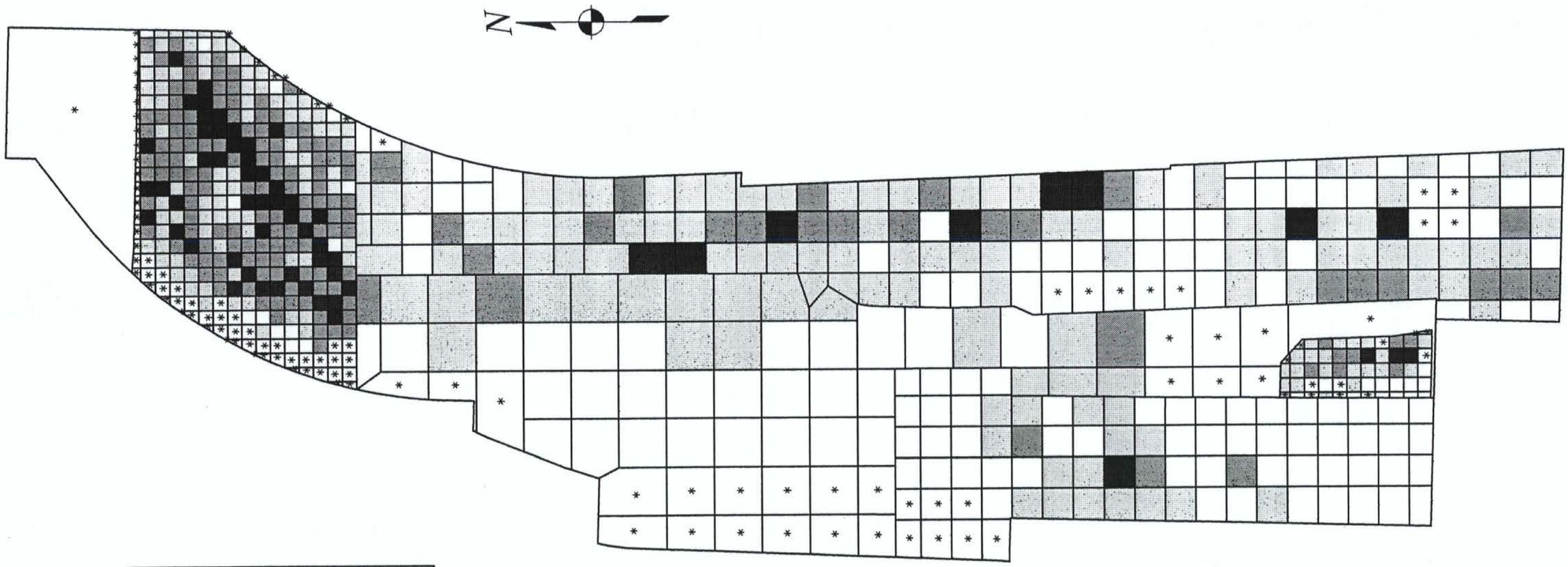
File name P1SK233 | Job No. 918055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

CYANIDE CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn GAL | Chkd. MJW | Date 12/20/91

MAP 12



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <20,000 mg/kg
- 20,000 TO <53,000 mg/kg
- 53,000 TO <130,000 mg/kg
- ≥ 130,000 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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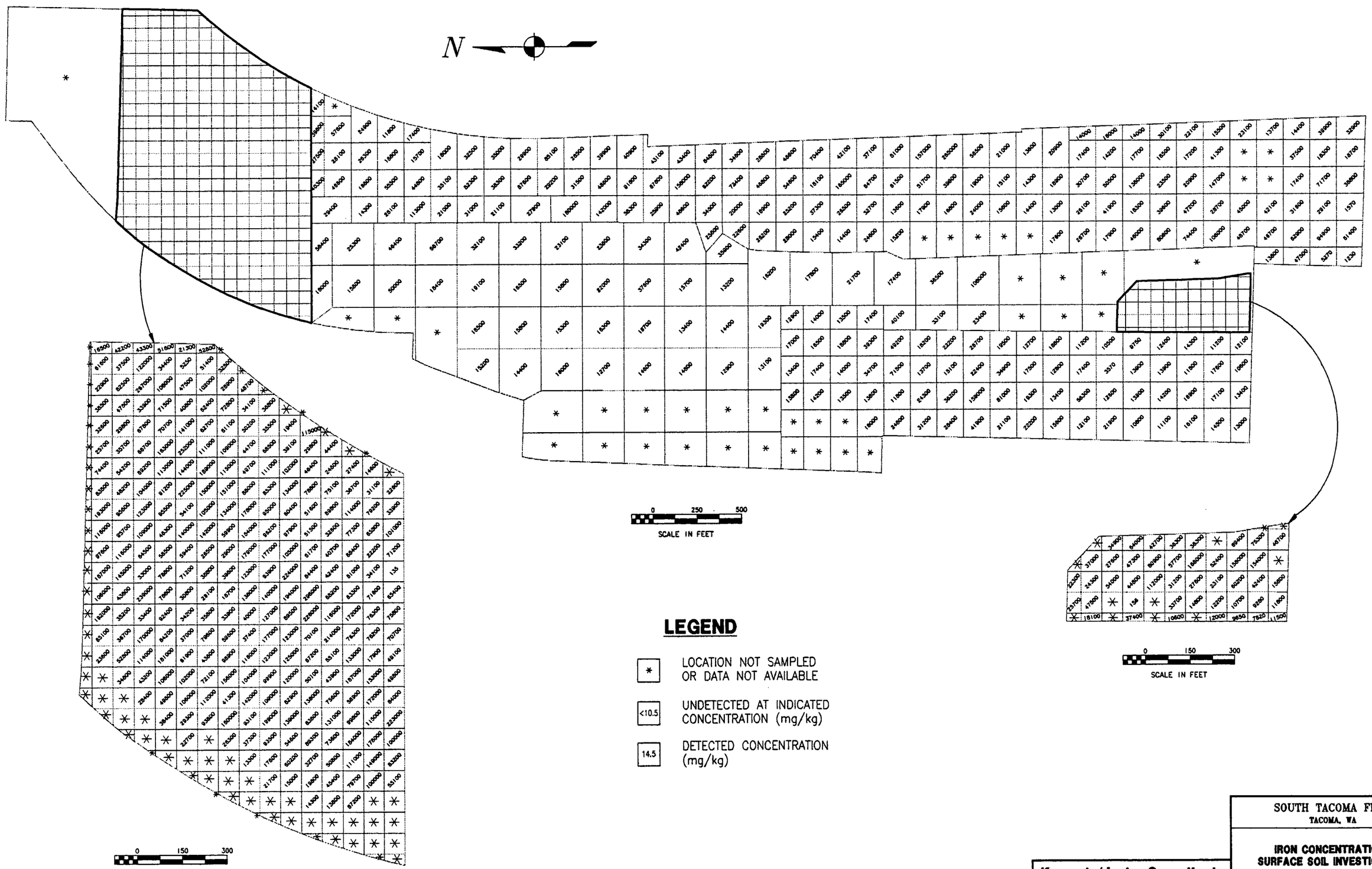
SOUTH TACOMA FIELD
TACOMA, WA

IRON DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK289

FIGURE 13



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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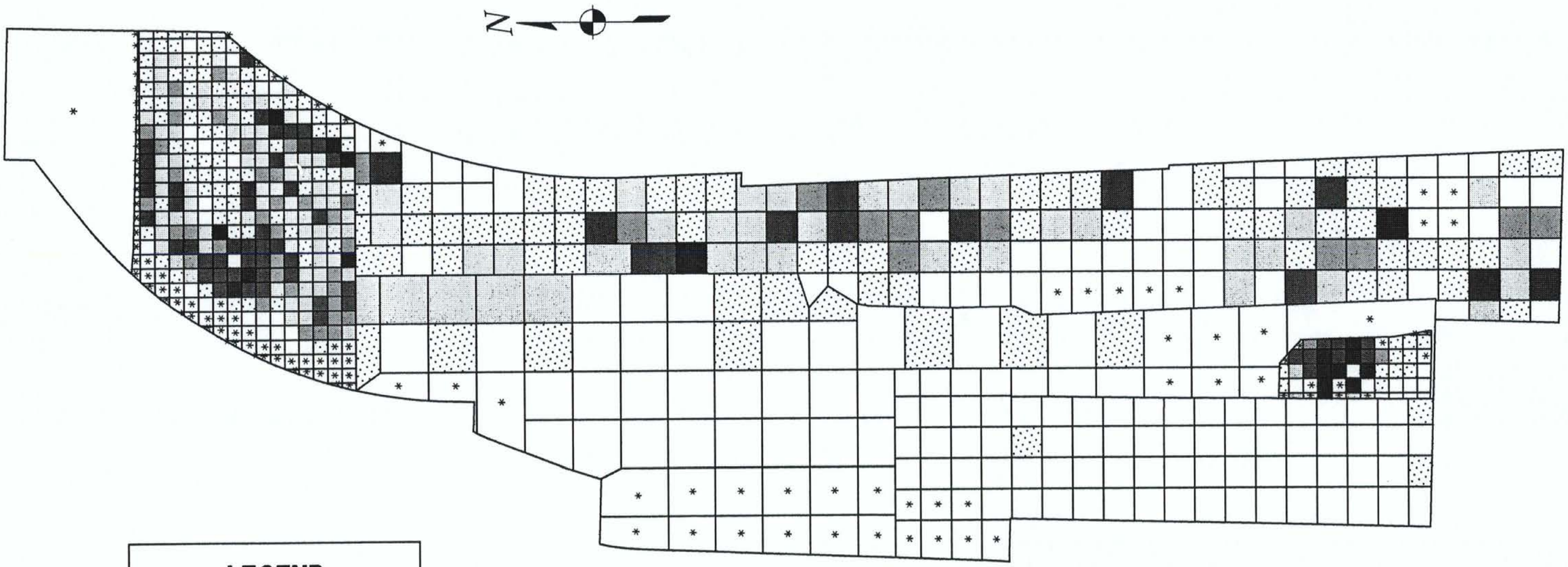
(206) 874-0555

File name	Job No.	Scale
P1SK244	916055.02	AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

IRON CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn	Chkd.	
CMW	MJW	MAP 13
Date 12/20/91		



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <200 mg/kg
- 200 TO <610 mg/kg
- 610 TO <1,600 mg/kg
- 1,600 TO <2,700 mg/kg
- 2,700 TO <10,000 mg/kg
- ≥ 10,000 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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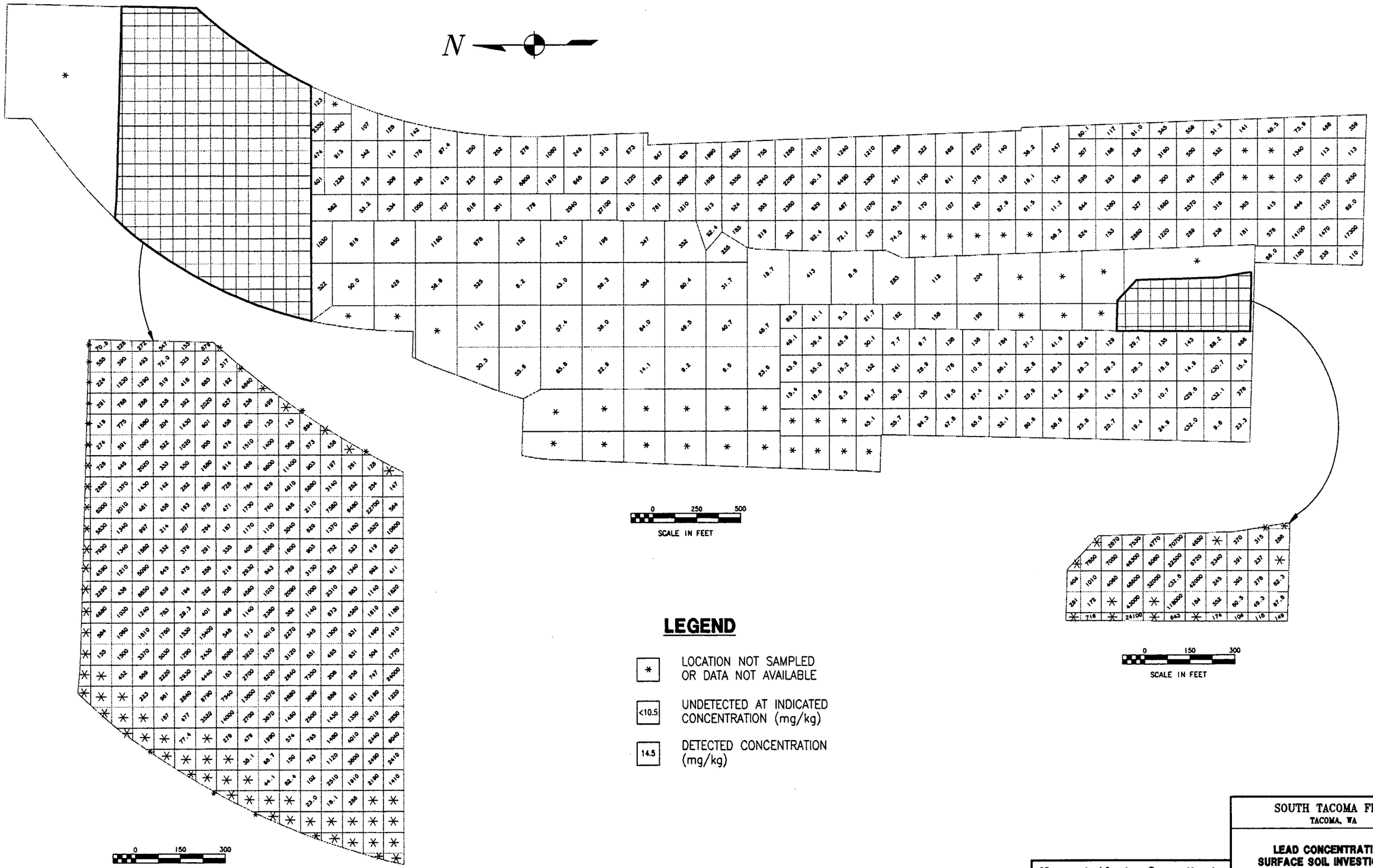
SOUTH TACOMA FIELD
TACOMA, WA

LEAD DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK278

FIGURE 14



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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(206) 874-0555

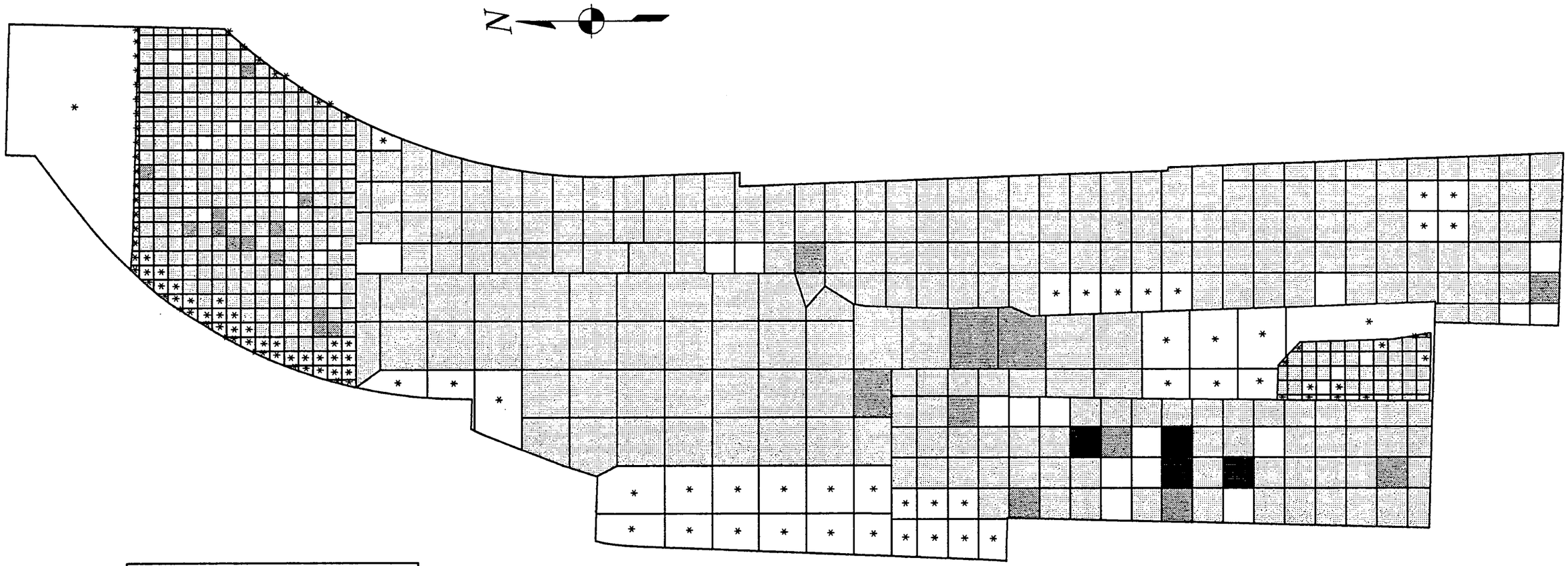
File name PISK234 | Job No. 916055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

LEAD CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn CMW | Chkd. MJW | Date 12/20/91

MAP 14



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <1,900 mg/kg
- 1,900 TO <5,400 mg/kg
- 5,400 TO <20,000 mg/kg
- ≥ 20,000 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

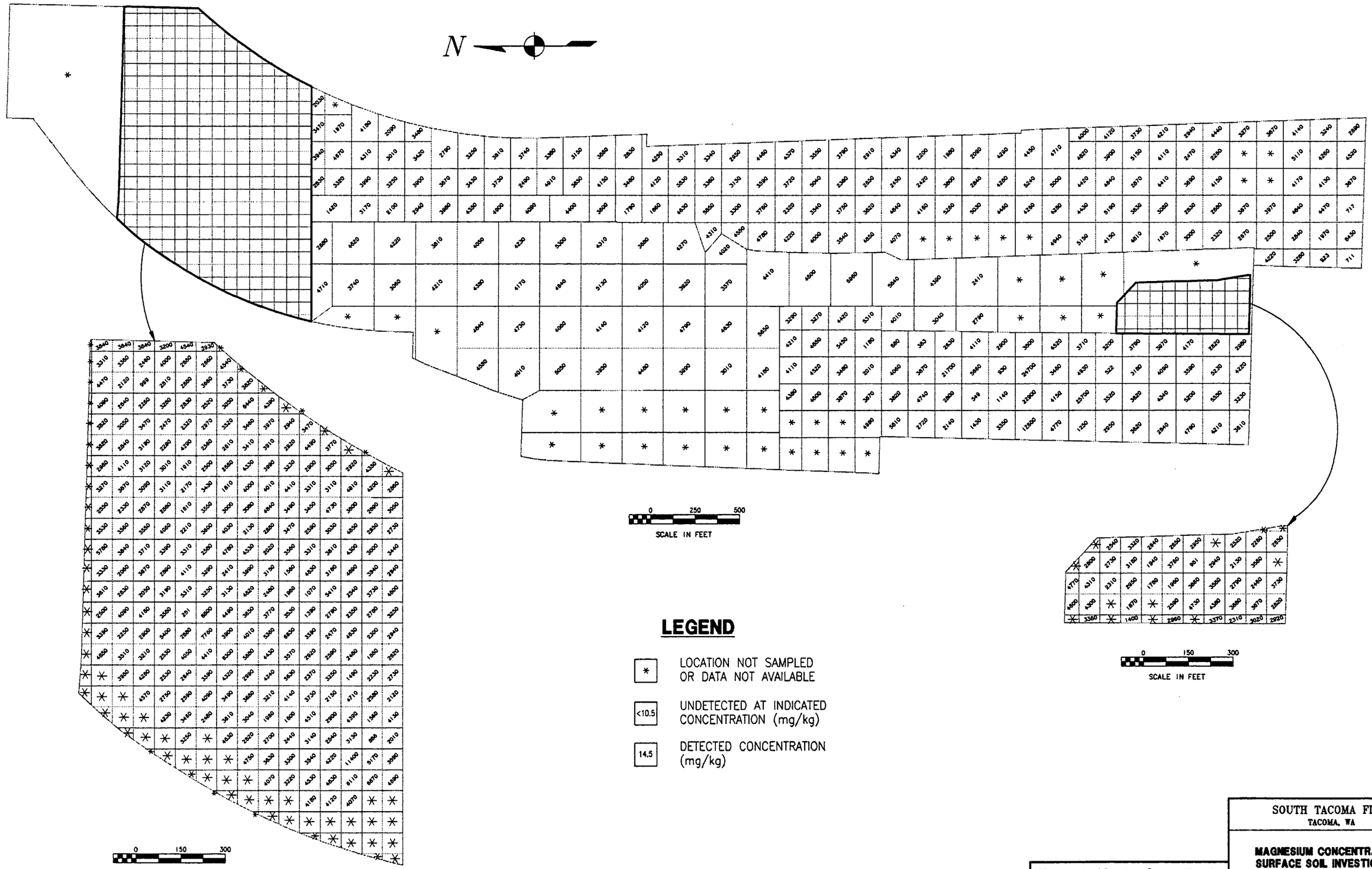
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

MAGNESIUM DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK290

FIGURE 15



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

Kennedy/Jenks Consultants
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(206) 874-0555

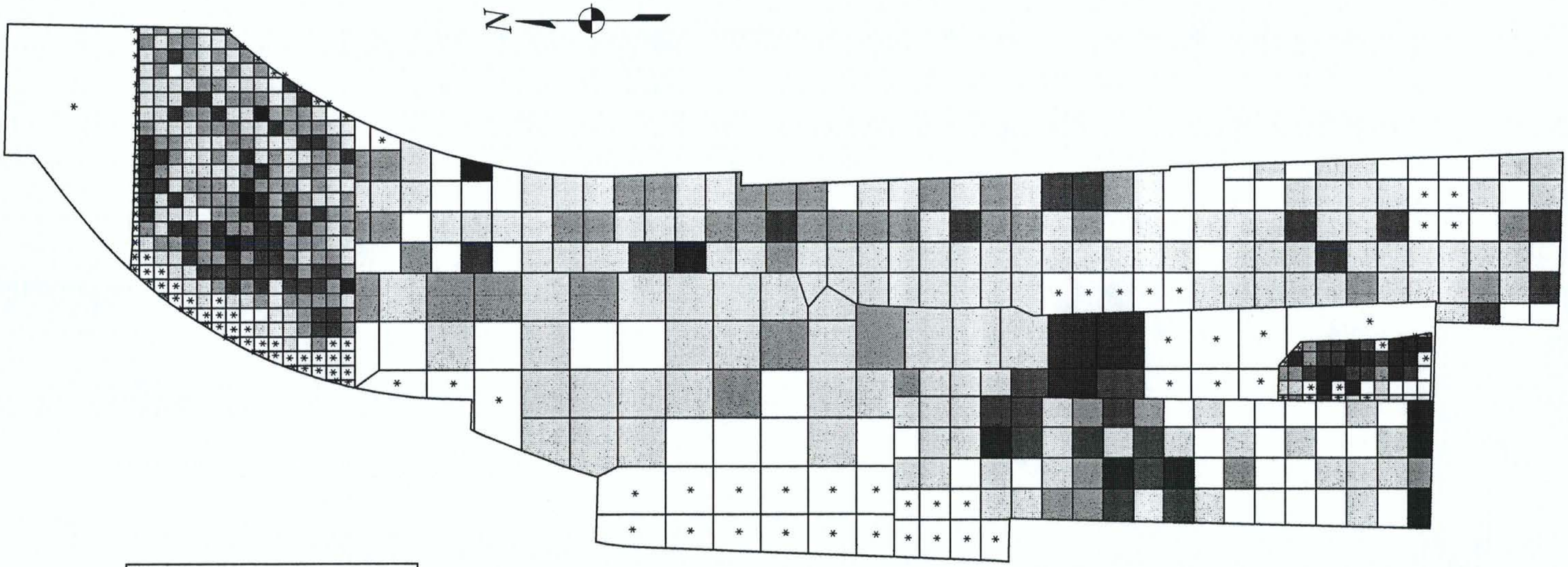
File name PISK245 | Job No. 916055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

MAGNESIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn CMW | Chkd. MJW | Date 12/20/91

MAP 15



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <290 mg/kg
- 290 TO <525 mg/kg
- 525 TO <880 mg/kg
- 880 TO <2,000 mg/kg
- ≥ 2,000 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

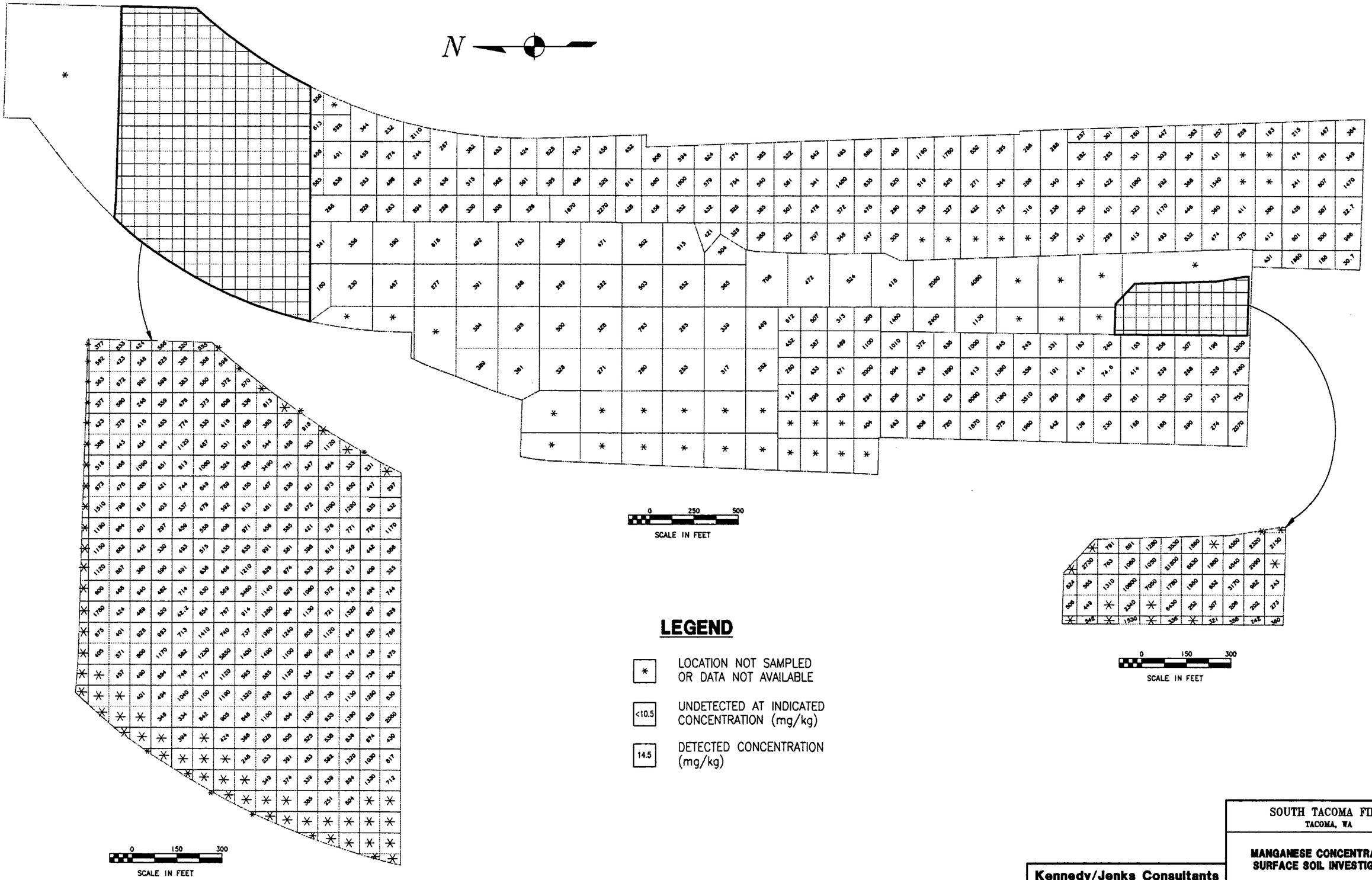
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

MANGANESE DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK279

FIGURE 16



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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(206) 874-0555

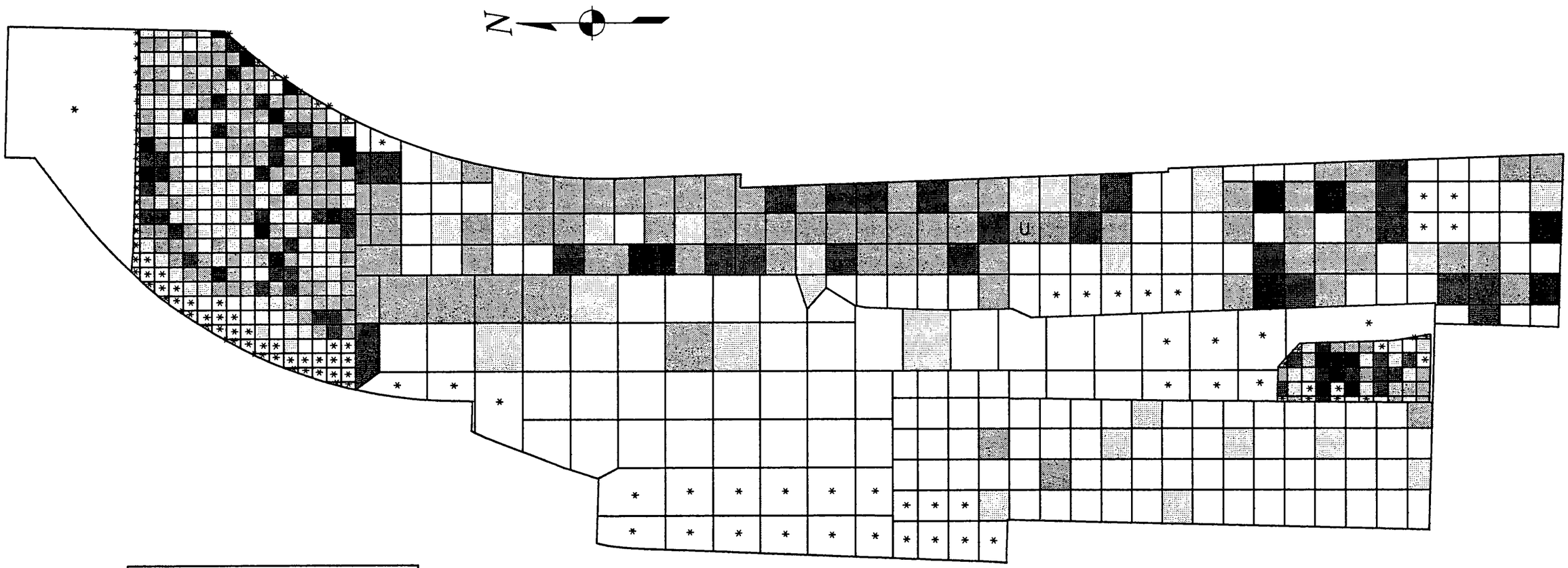
File name P1SK235 | Job No. 918055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

MANGANESE CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn CMW | Chkd. MJW | Date 12/20/91

MAP 16



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <0.060 mg/kg
- 0.060 TO <0.14 mg/kg
- 0.14 TO <0.36 mg/kg
- 0.36 TO <0.80 mg/kg
- ≥ 0.80 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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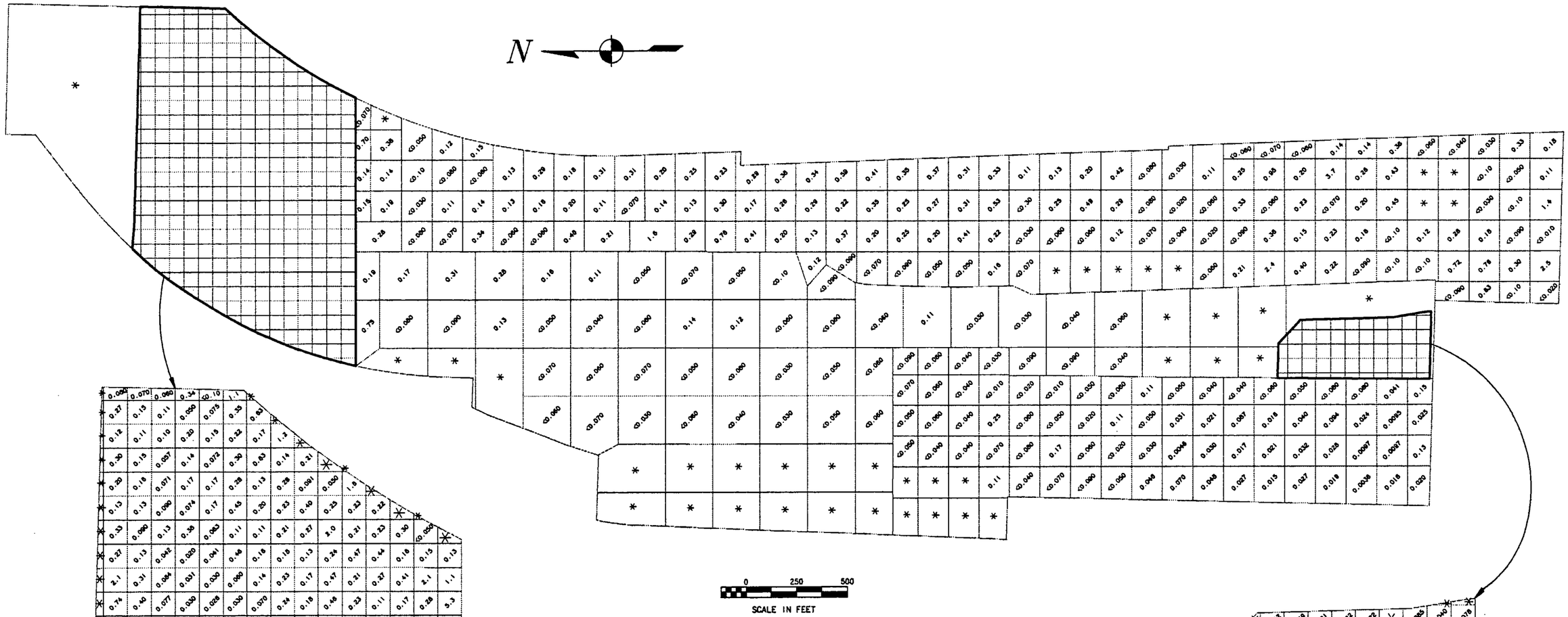
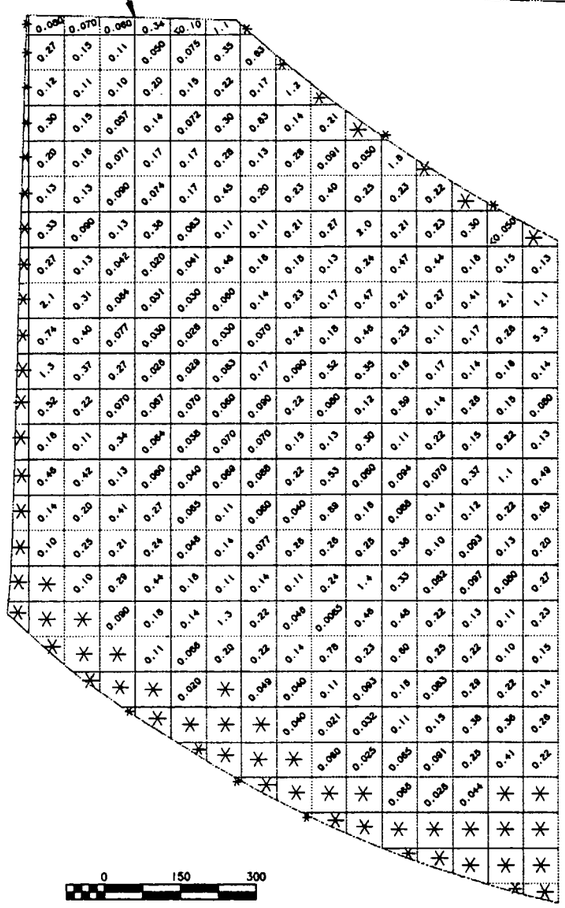
SOUTH TACOMA FIELD
TACOMA, WA

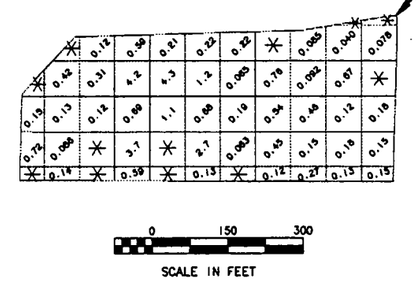
MERCURY DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK280

FIGURE 17







LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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530 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

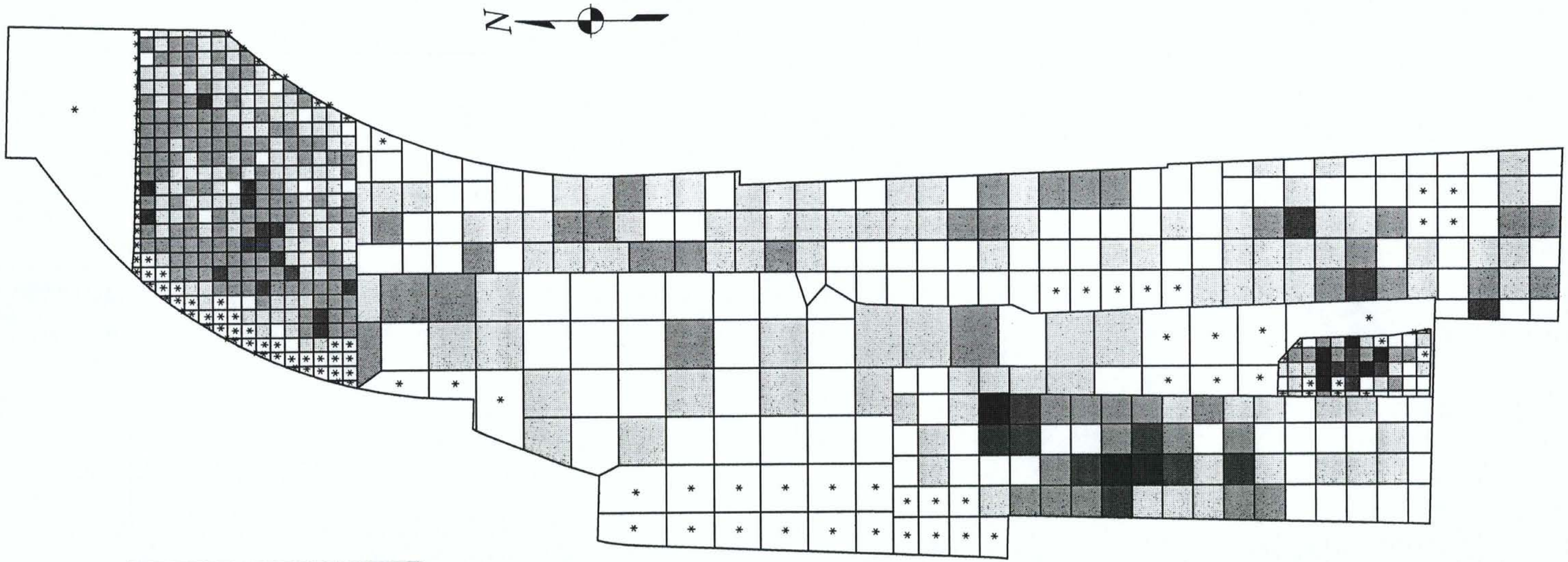
File name PISK236 | Job No. 916055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

MERCURY CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn CMW | Chkd. MJW
Date 12/20/91

MAP 17



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <28.0 mg/kg
- 28.0 TO <40.0 mg/kg
- 40.0 TO <85.0 mg/kg
- 85.0 TO <200 mg/kg
- ≥ 200 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

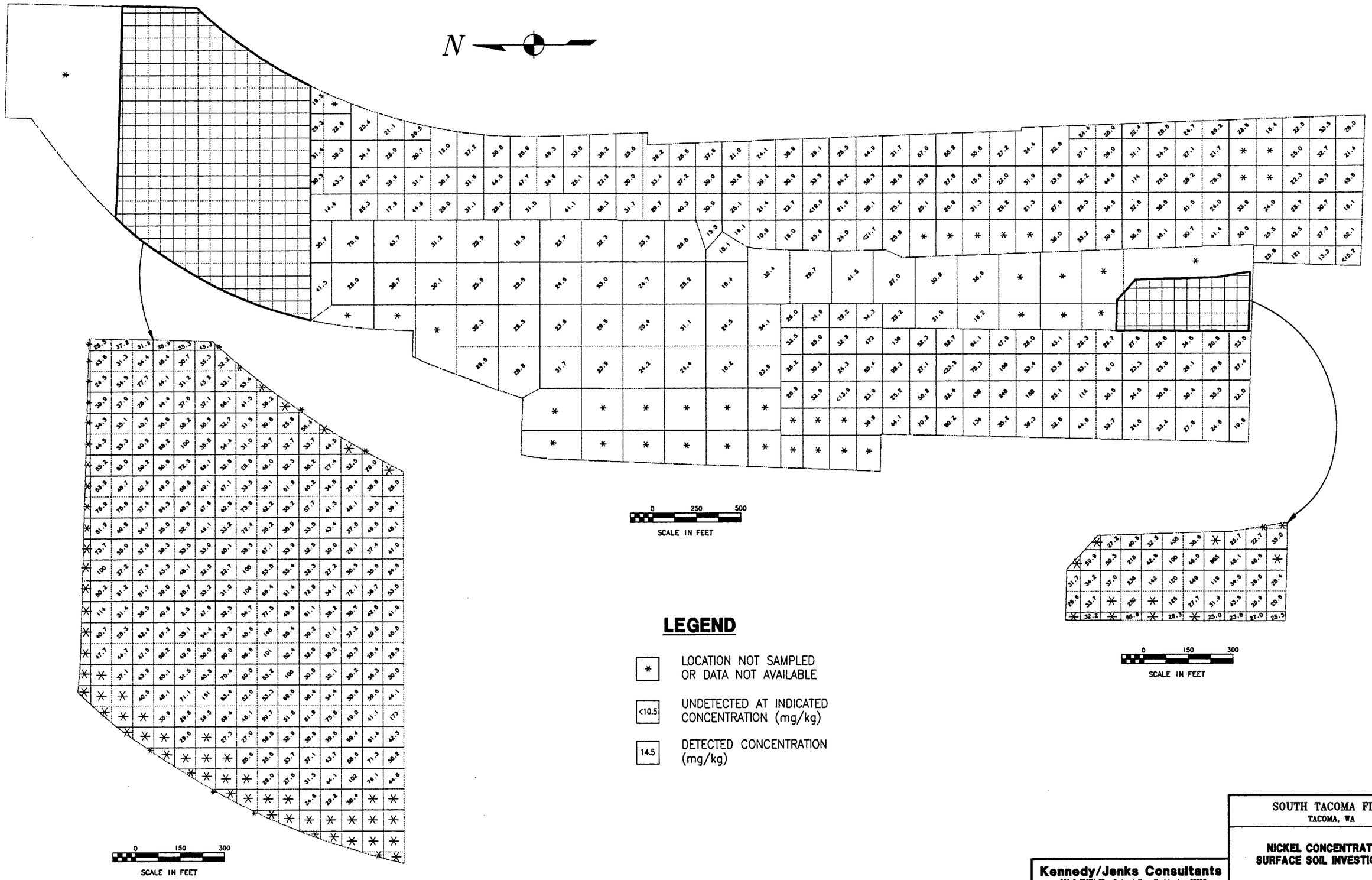
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

NICKEL DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK281

FIGURE 18



LEGEND

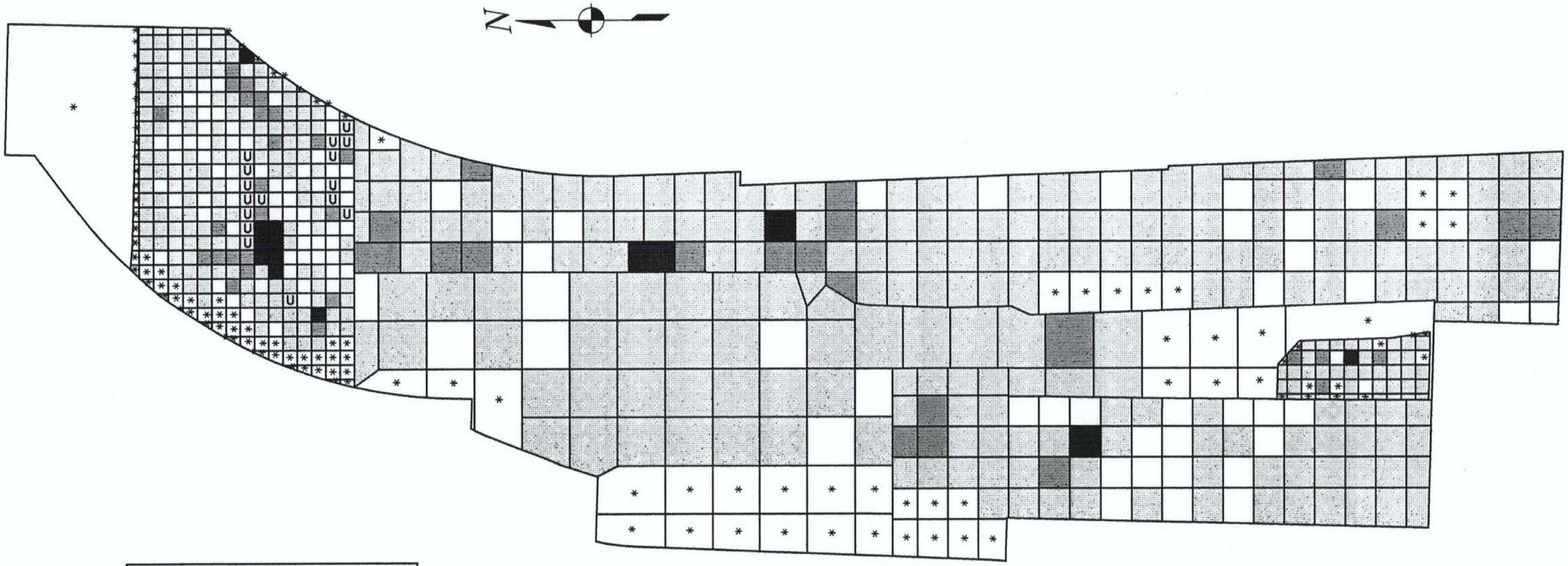
*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

NICKEL CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S. 336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK237	918055.02	AS SHOWN	CMW	MJW	12/20/91	MAP 18



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <360 mg/kg
- 360 TO <825 mg/kg
- 825 TO <1,250 mg/kg
- ≥ 1,250 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

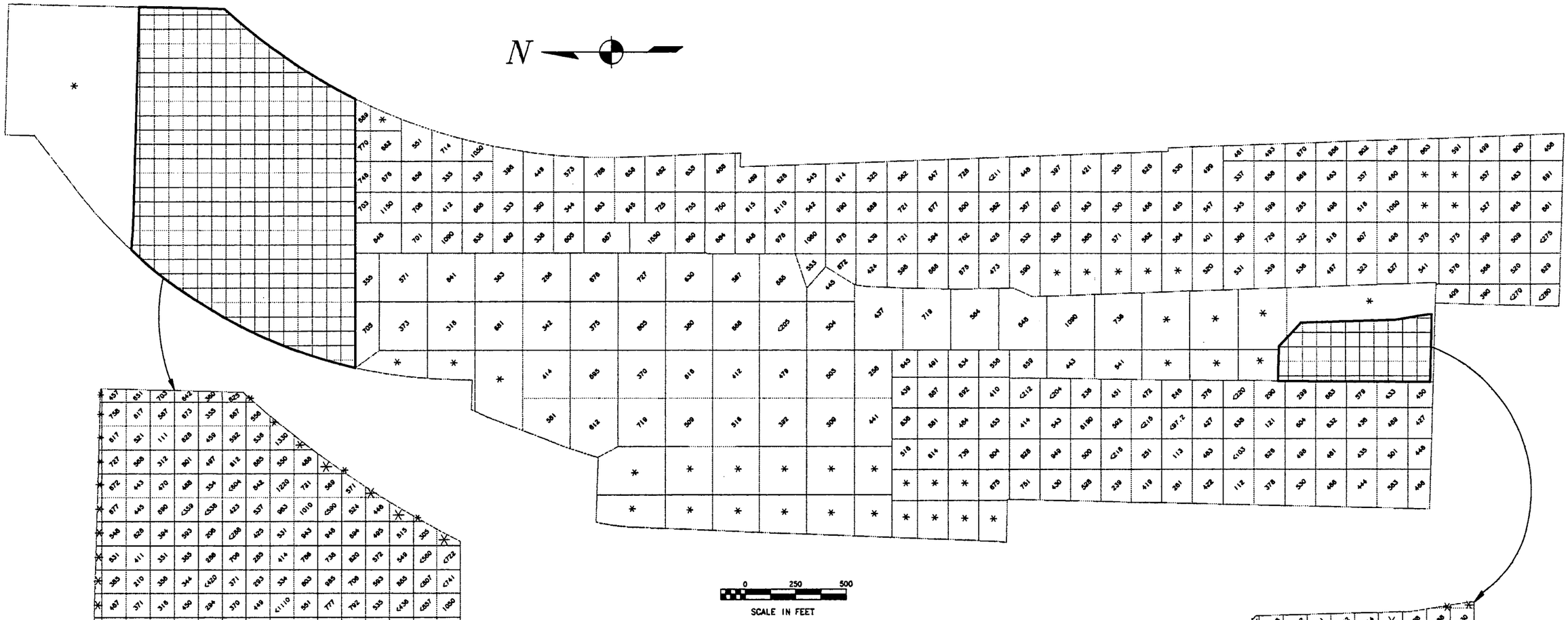
Kennedy/Jenks Consultants

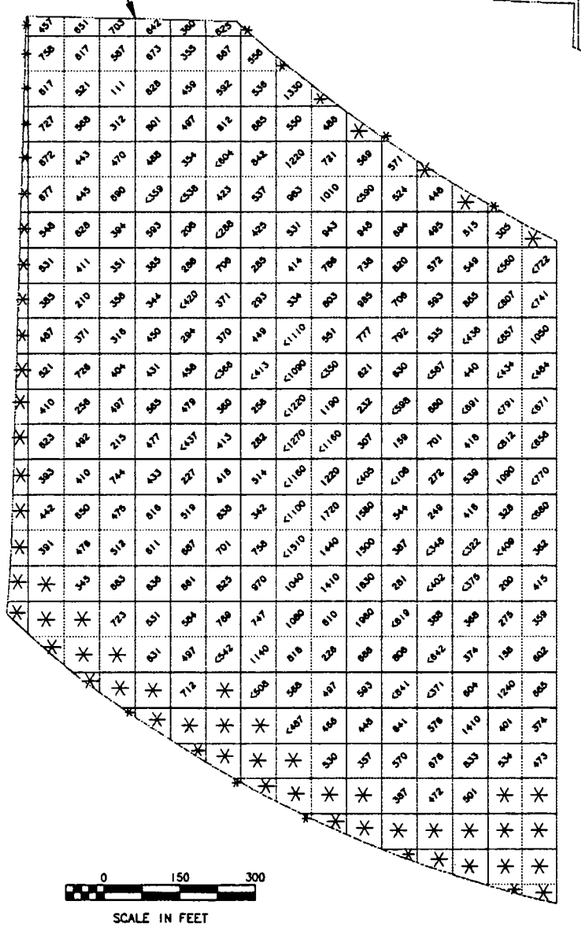
SOUTH TACOMA FIELD
TACOMA, WA

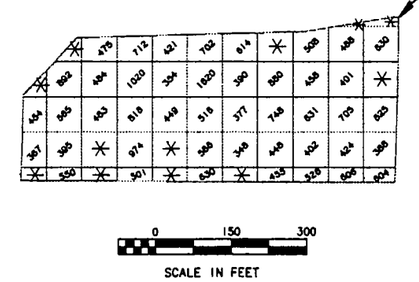
POTASSIUM DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK291

FIGURE 19







LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

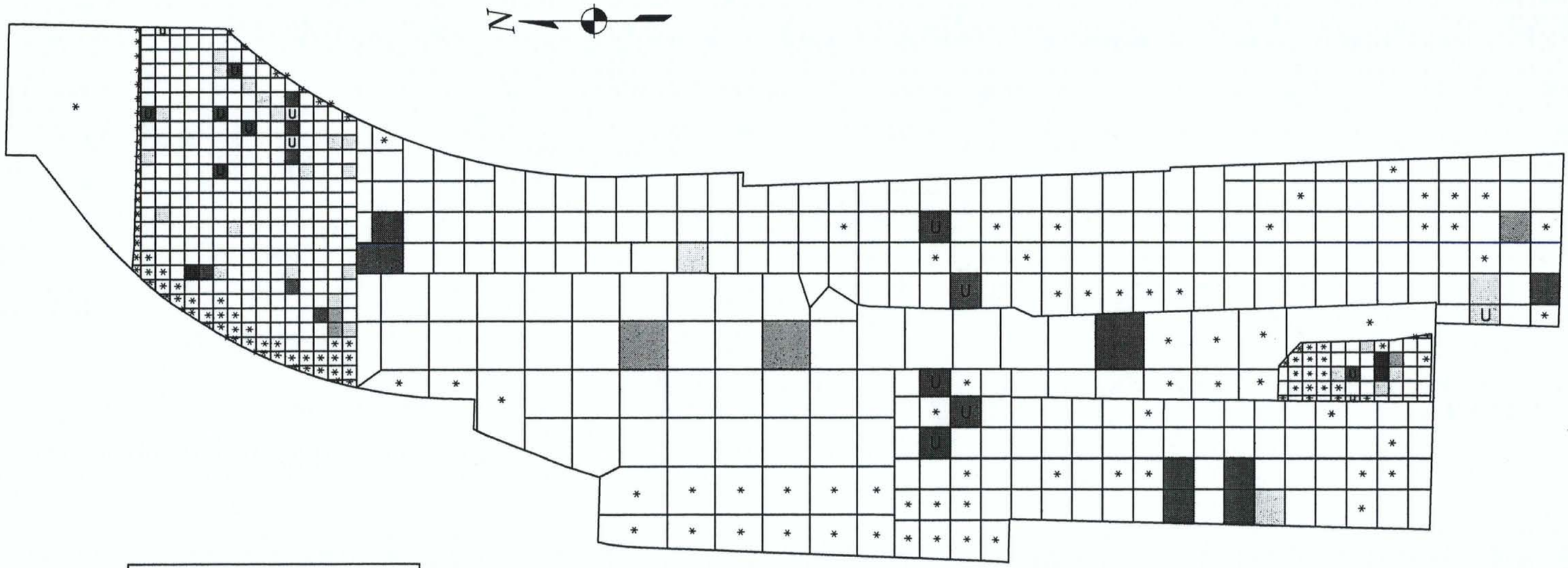
SOUTH TACOMA FIELD
TACOMA, WA

POTASSIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK246	916055.02	AS SHOWN	CMW	MJW	12/20/91

MAP 19



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <0.50 mg/kg
- 0.50 TO <0.72 mg/kg
- 0.72 TO <0.80 mg/kg
- 0.80 TO <10.0 mg/kg
- ≥ 10.0 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

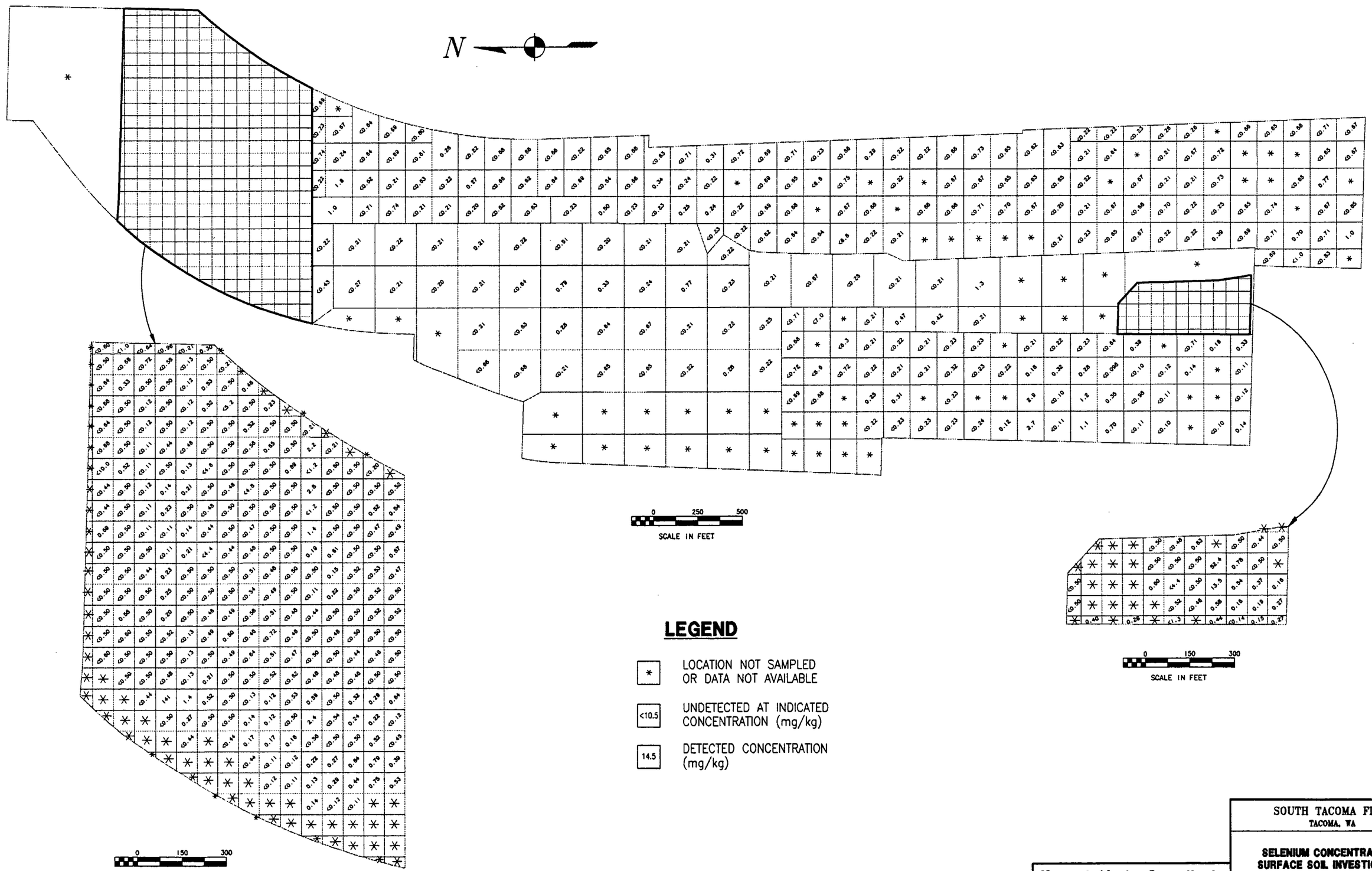
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

SELENIUM DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK282

FIGURE 20



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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(206) 874-0555

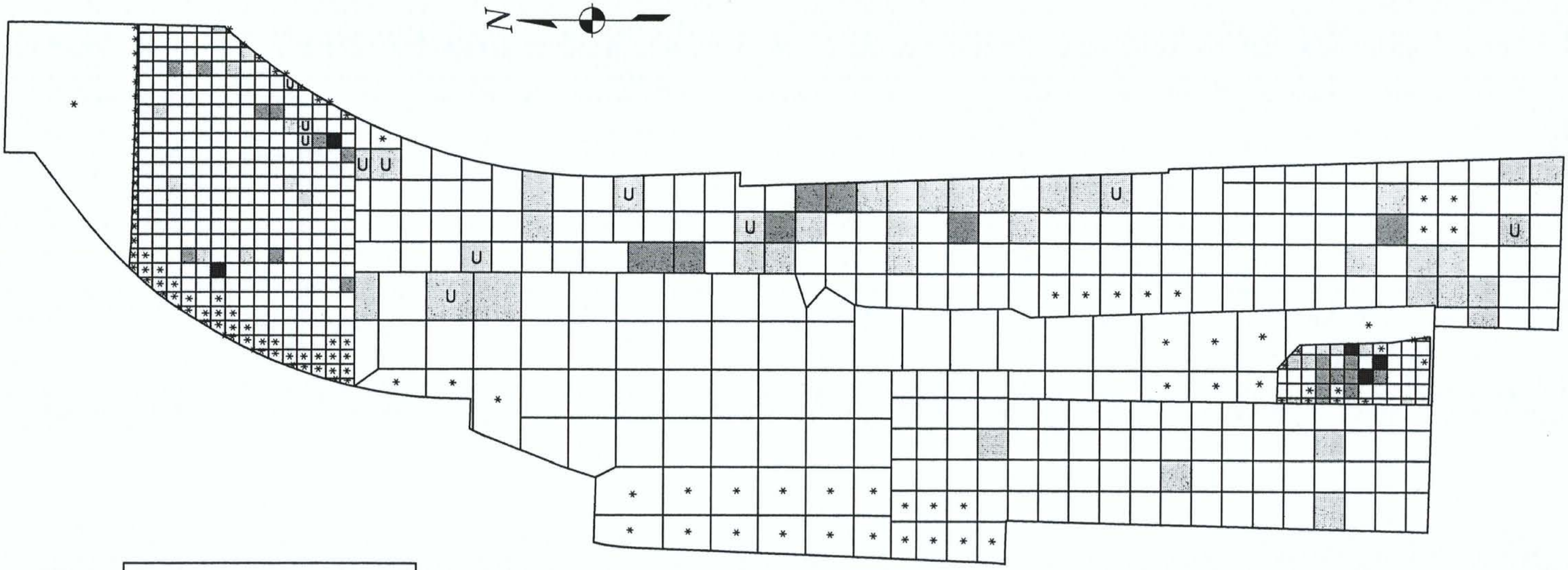
File name PISK238 | Job No. 916055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

SELENIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn MBW | Chkd. MJW | Date 12/20/91

MAP 20



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <1.0 mg/kg
- 1.0 TO <4.0 mg/kg
- 4.0 TO <20.0 mg/kg
- ≥ 20.0 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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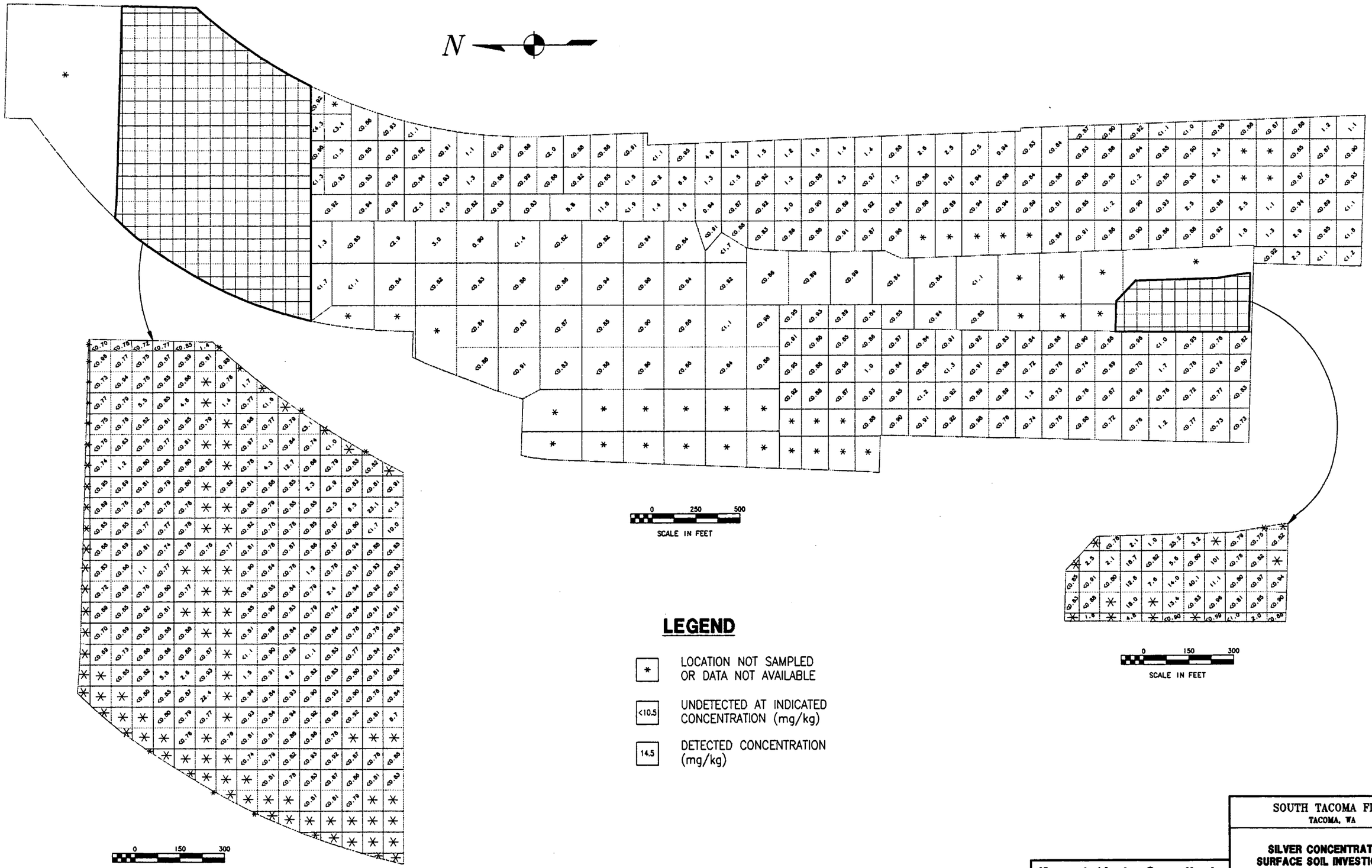
SOUTH TACOMA FIELD
TACOMA, WA

SILVER DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK283

FIGURE 21



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

SILVER CONCENTRATIONS SURFACE SOIL INVESTIGATION

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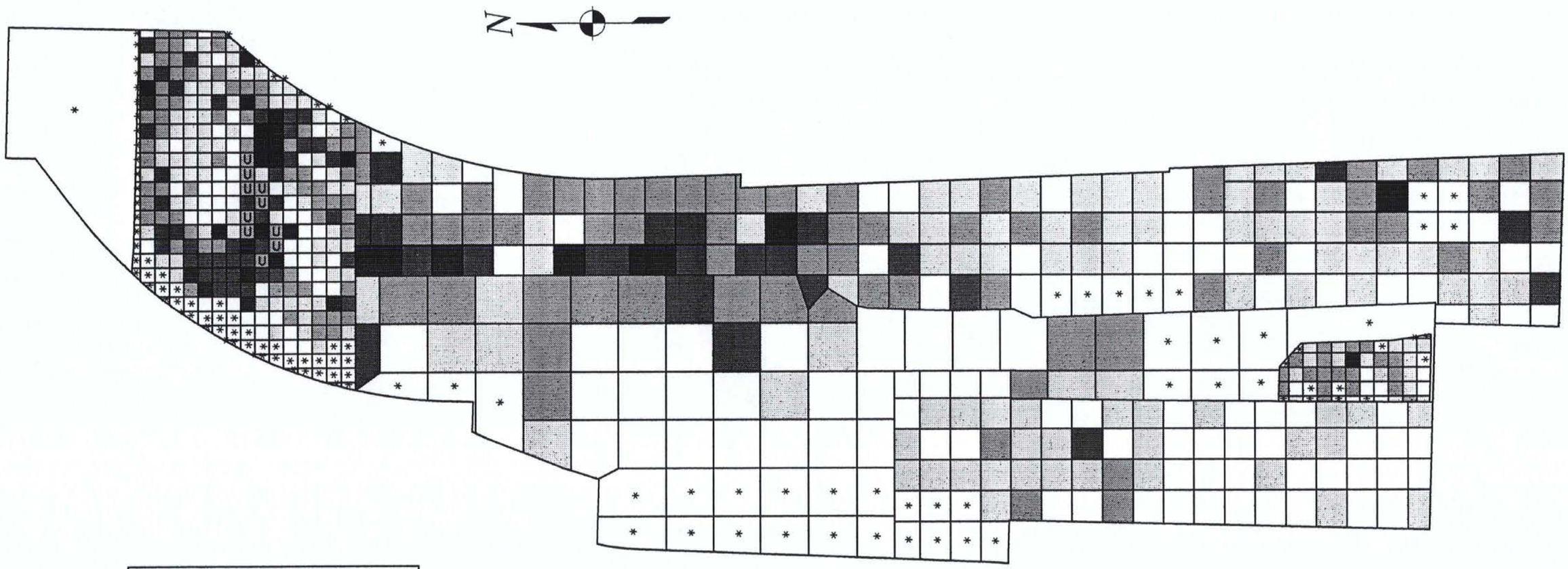
File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK226	916055.02	AS SHOWN	MBW	MJW	12/20/91

MAP 21



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <150 mg/kg
- 150 TO <250 mg/kg
- 250 TO <430 mg/kg
- 430 TO <780 mg/kg
- ≥ 780 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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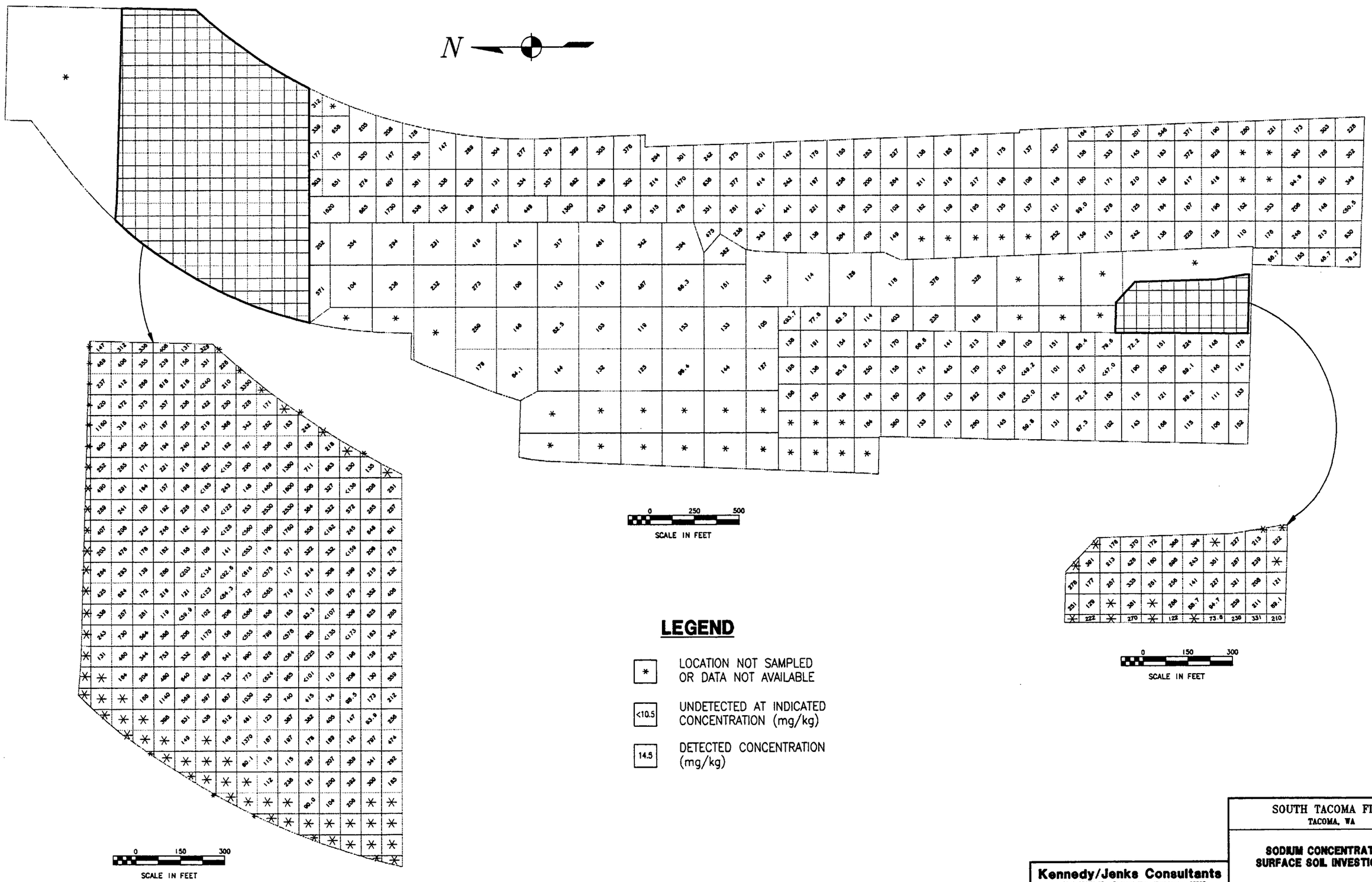
SOUTH TACOMA FIELD
TACOMA, WA

SODIUM DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK292

FIGURE 22



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

SODIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

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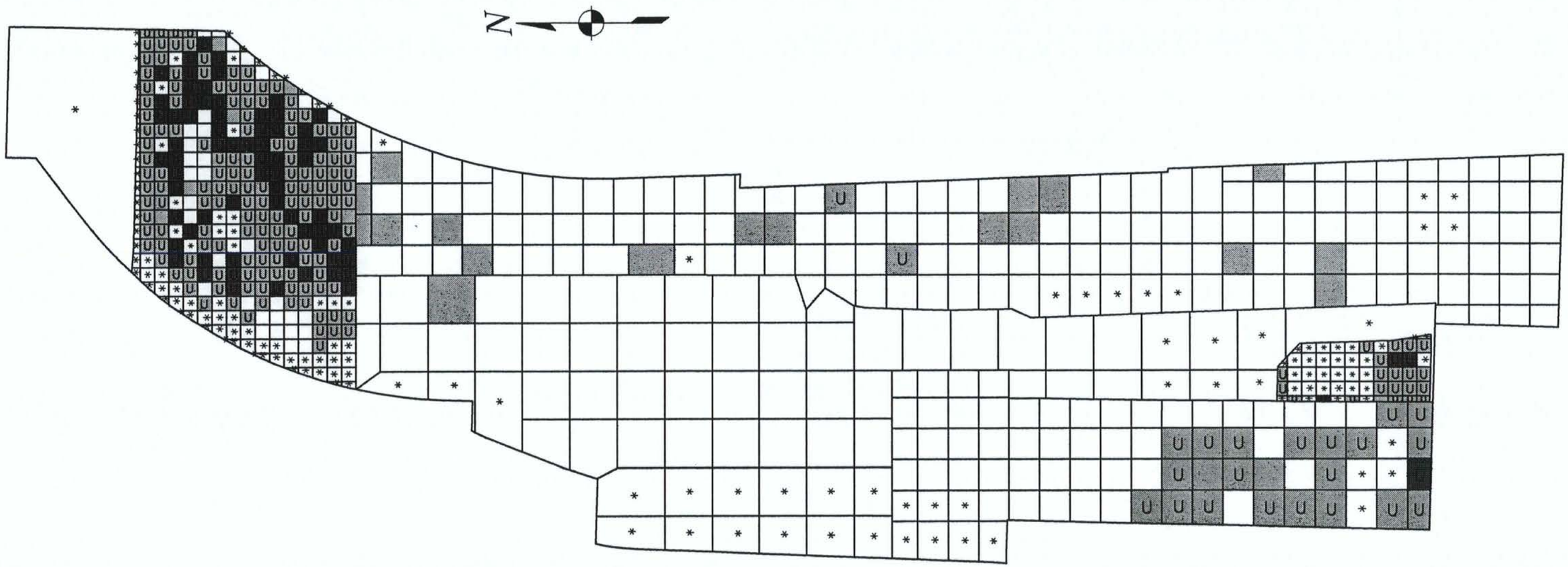
File name	Job No.	Scale	Drawn	Chkd.	Date	
PISK247	918055.02	AS SHOWN	GAL	MJW	12/20/91	MAP 22



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <0.25 mg/kg
- 0.25 TO <2.0 mg/kg
- ≥ 2.0 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

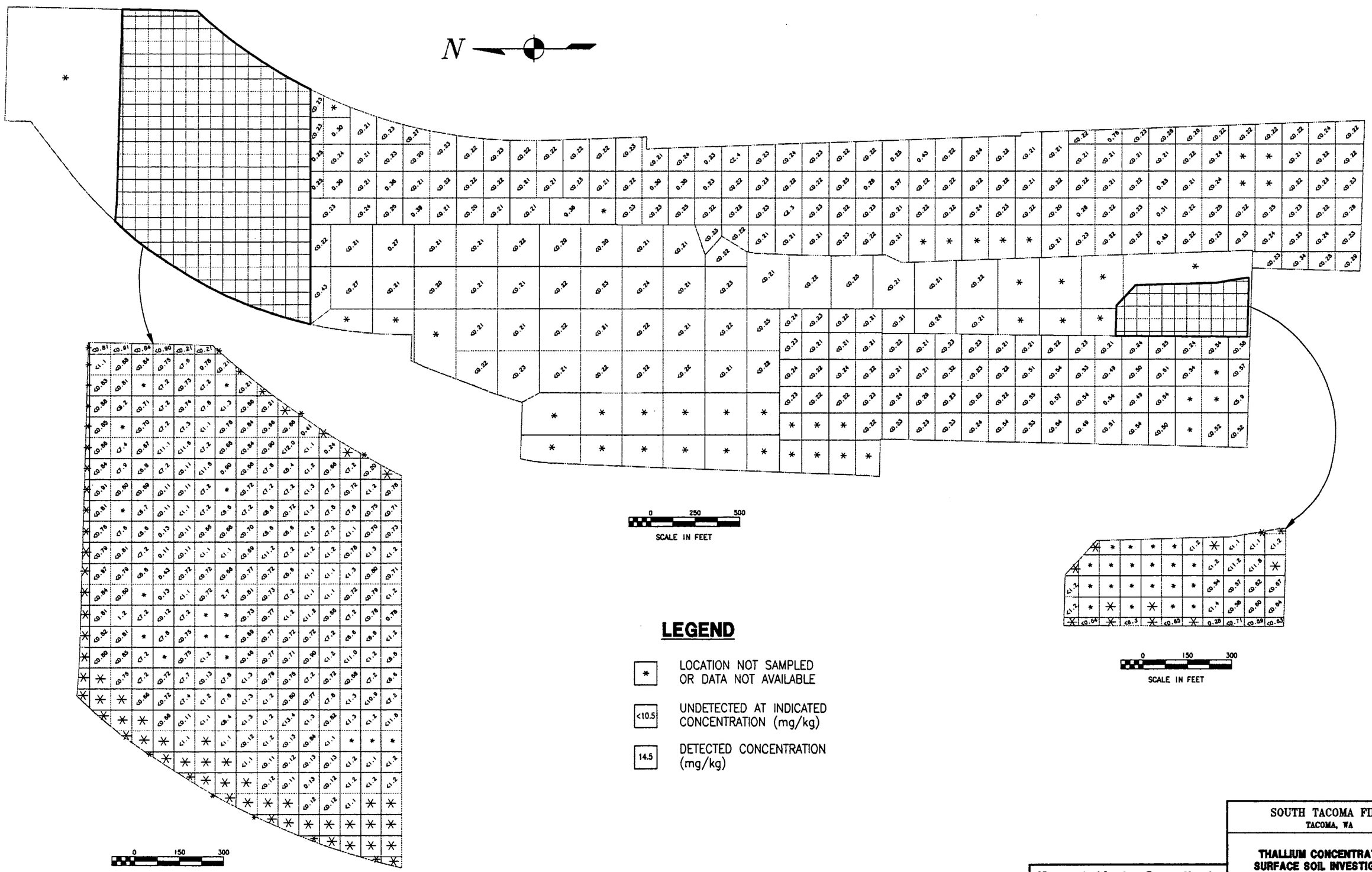
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

THALLIUM DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK284

FIGURE 23



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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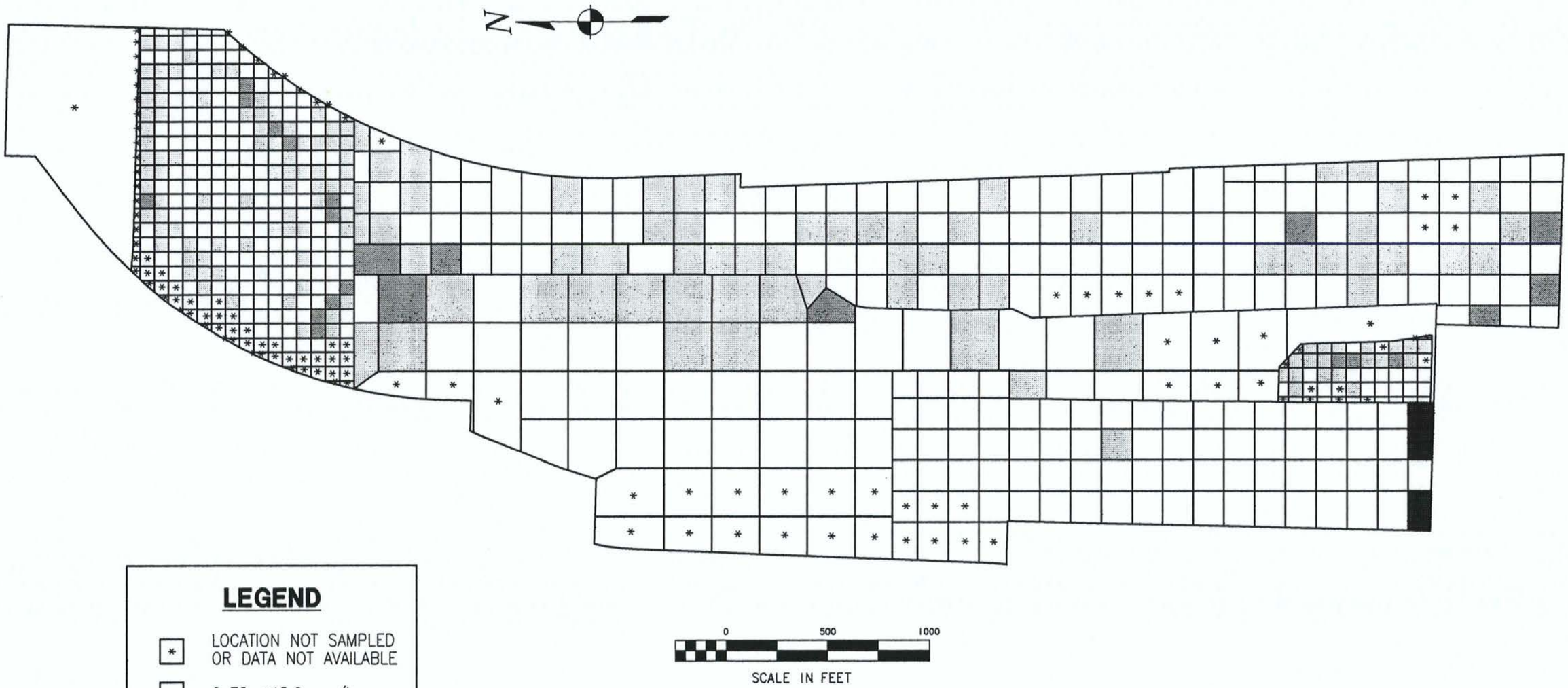
File name	Job No.	Scale	Drawn	Chkd.	Date
PISK251	918055.02	AS SHOWN	GAL	MJW	12/20/91

SOUTH TACOMA FIELD
TACOMA, WA

THALLIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

MAP 23



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO <48.0 mg/kg
- 48.0 TO <80.0 mg/kg
- 80.0 TO <180 mg/kg
- ≥ 180 mg/kg

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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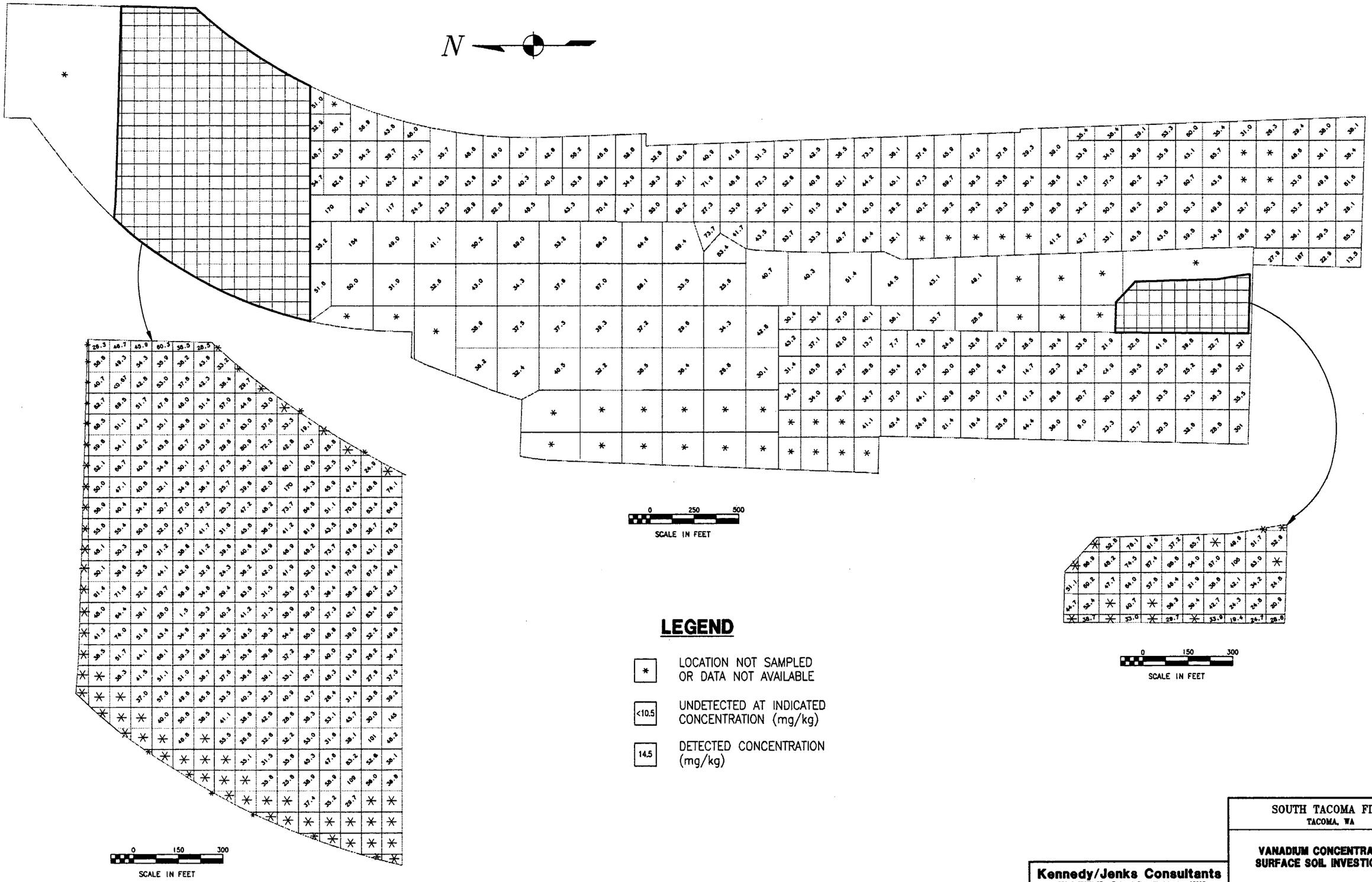
SOUTH TACOMA FIELD
TACOMA, WA

VANADIUM DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK285

FIGURE 24



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

VANADIUM CONCENTRATIONS SURFACE SOIL INVESTIGATION

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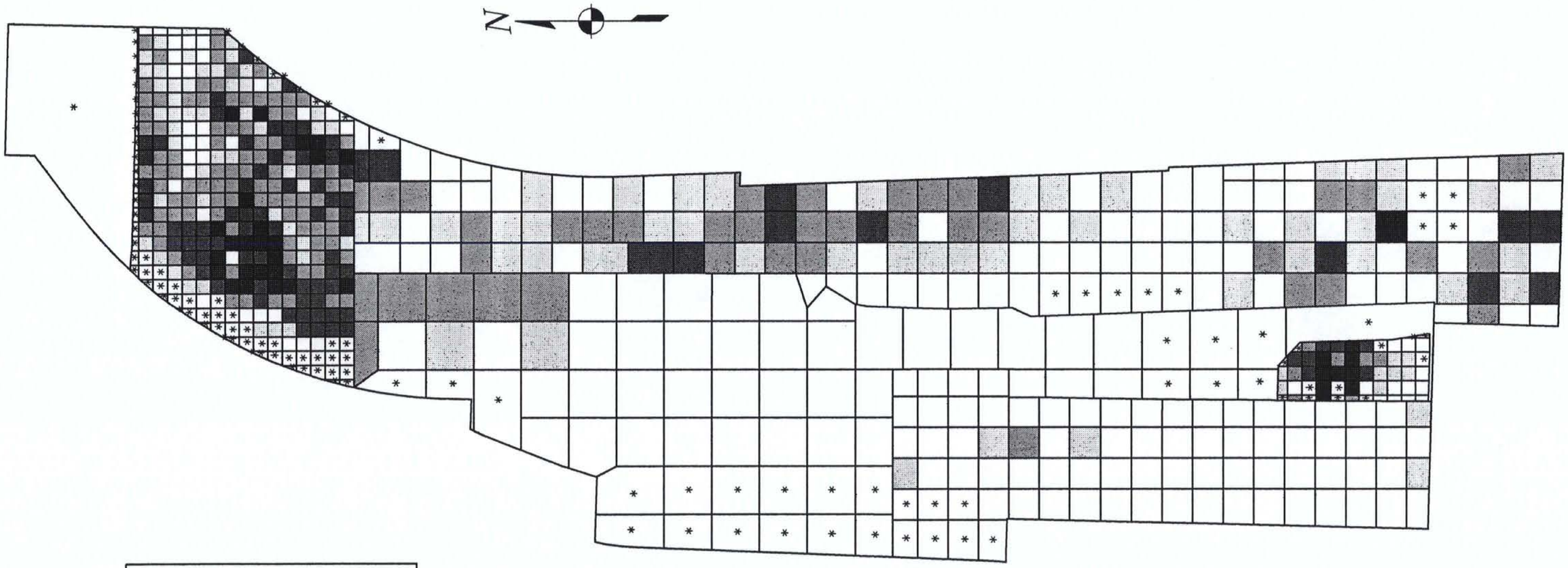
File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK240	918055.02	AS SHOWN	GAL	WJW	12/20/91

MAP 24



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- 0 TO 195 mg/kg
- 195 TO <380 mg/kg
- 380 TO <1,100 mg/kg
- 1,100 TO <5,000 mg/kg
- ≥ 5,000 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. CONCENTRATION RANGES WERE PRIMARILY DETERMINED USING STATISTICAL METHODS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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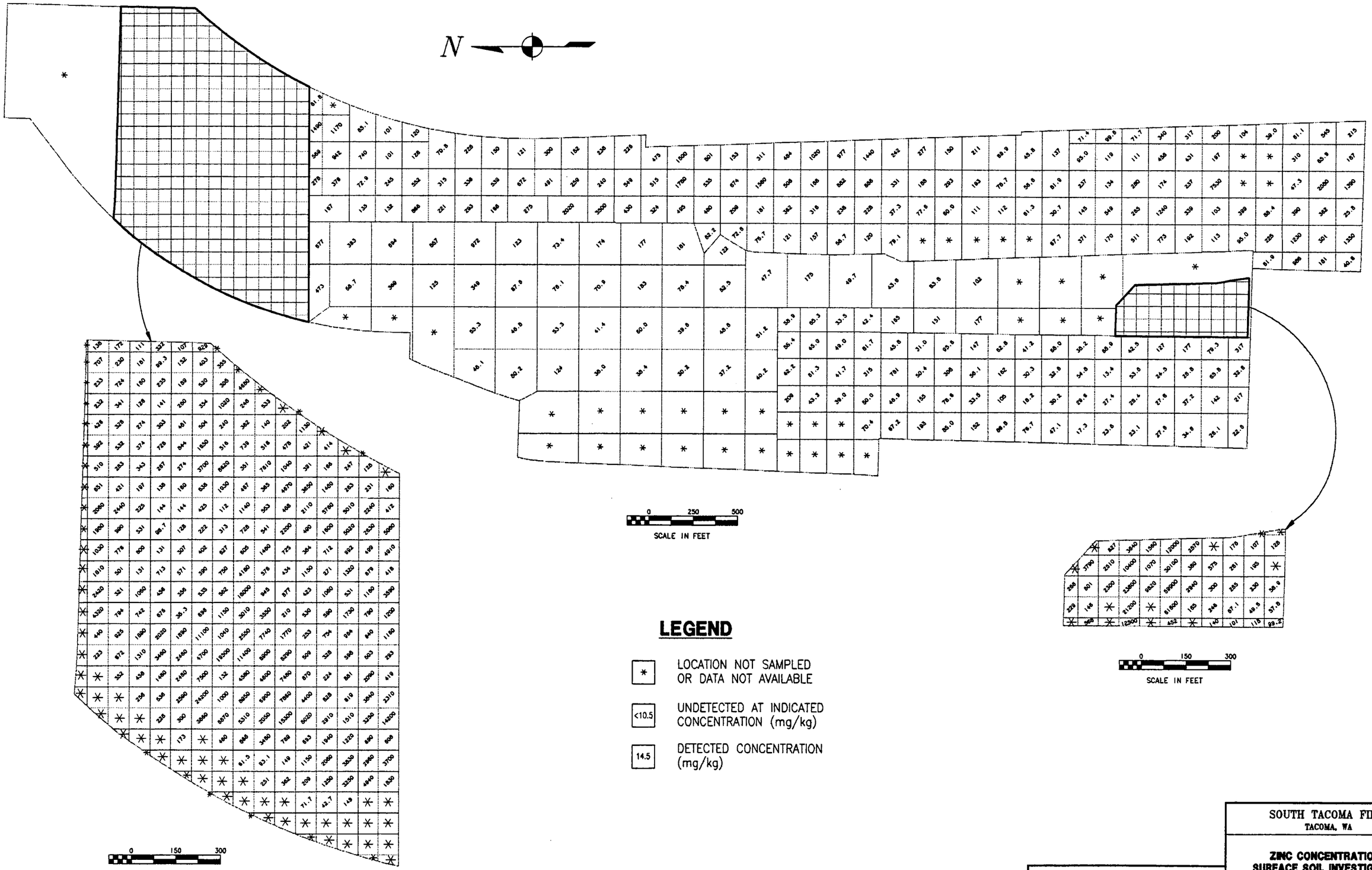
SOUTH TACOMA FIELD
TACOMA, WA

ZINC DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK286

FIGURE 25



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

ZINC CONCENTRATIONS
SURFACE SOIL INVESTIGATION

MAP 25

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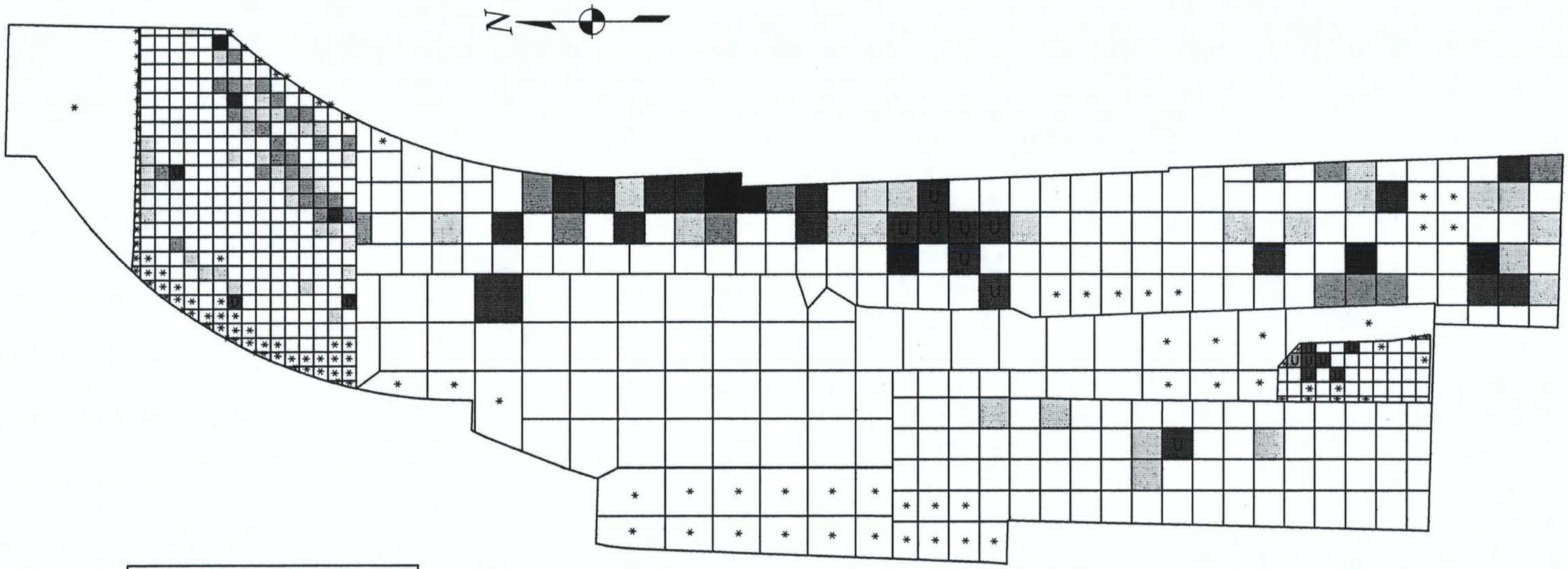
(206) 874-0586

File name	Job No.	Scale	Drawn	Chkd.	Date
PISK241	916055.02	AS SHOWN	CMW	MJW	12/20/91



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.24 mg/kg
- 0.24 TO <0.41 mg/kg
- 0.41 TO <1.0 mg/kg
- ≥ 1.0 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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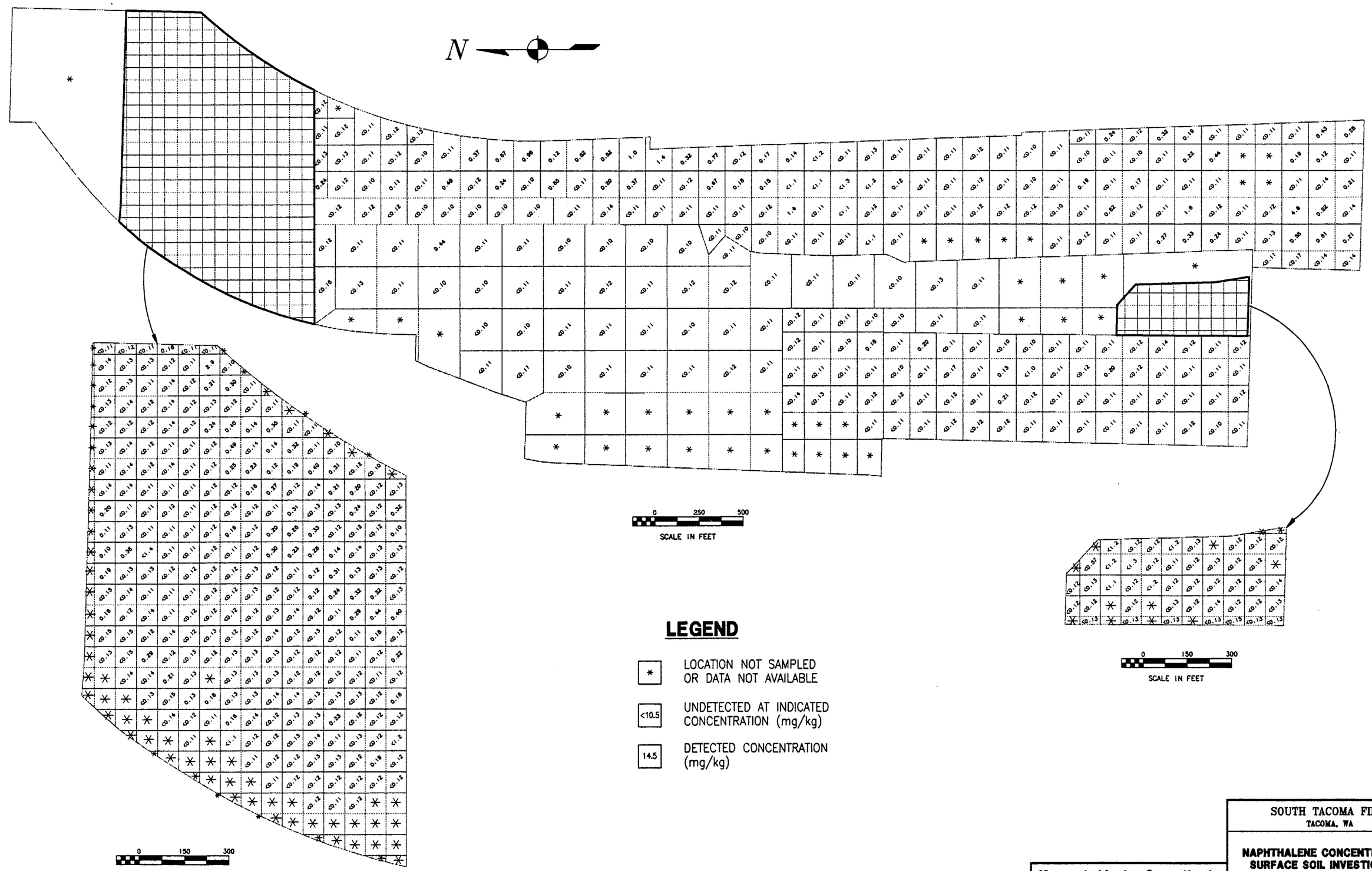
SOUTH TACOMA FIELD
TACOMA, WA

NAPHTHALENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK255

FIGURE 26



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

NAPHTHALENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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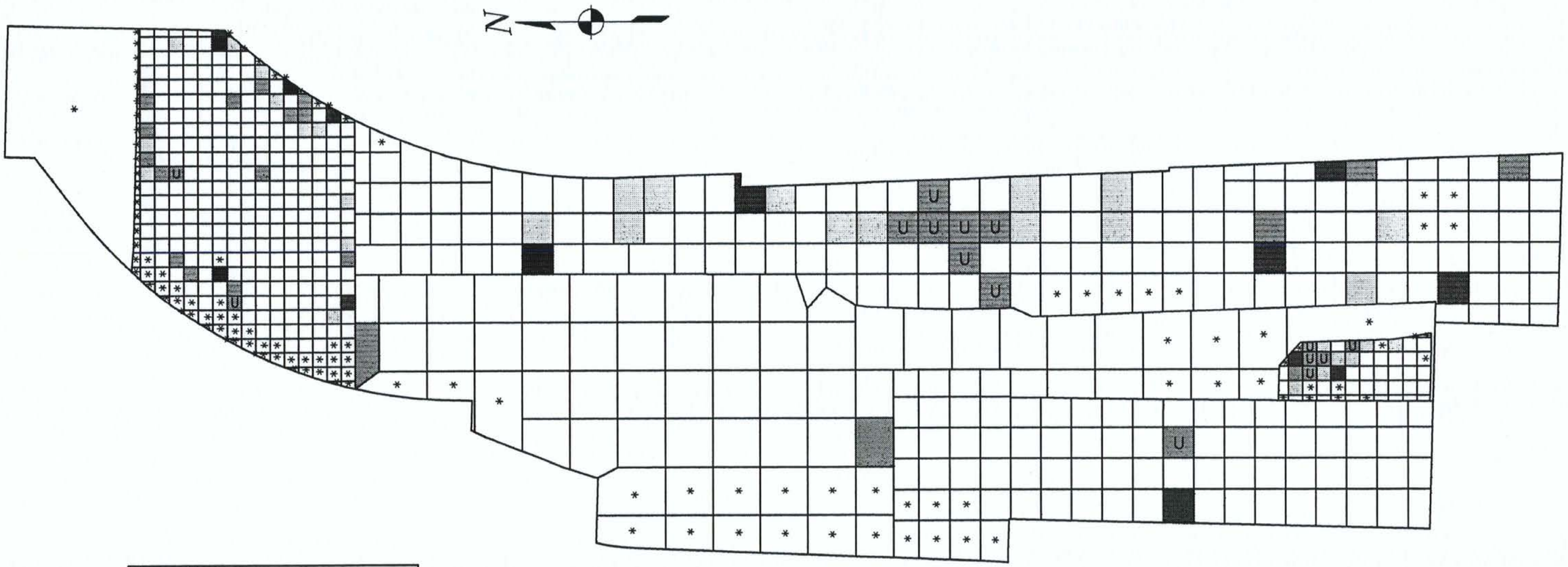
File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK208	916055.02	AS SHOWN	MEW	MJW	12/20/91

MAP 26



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.041 mg/kg
- 0.041 TO <0.15 mg/kg
- 0.15 TO <0.75 mg/kg
- ≥ 0.75 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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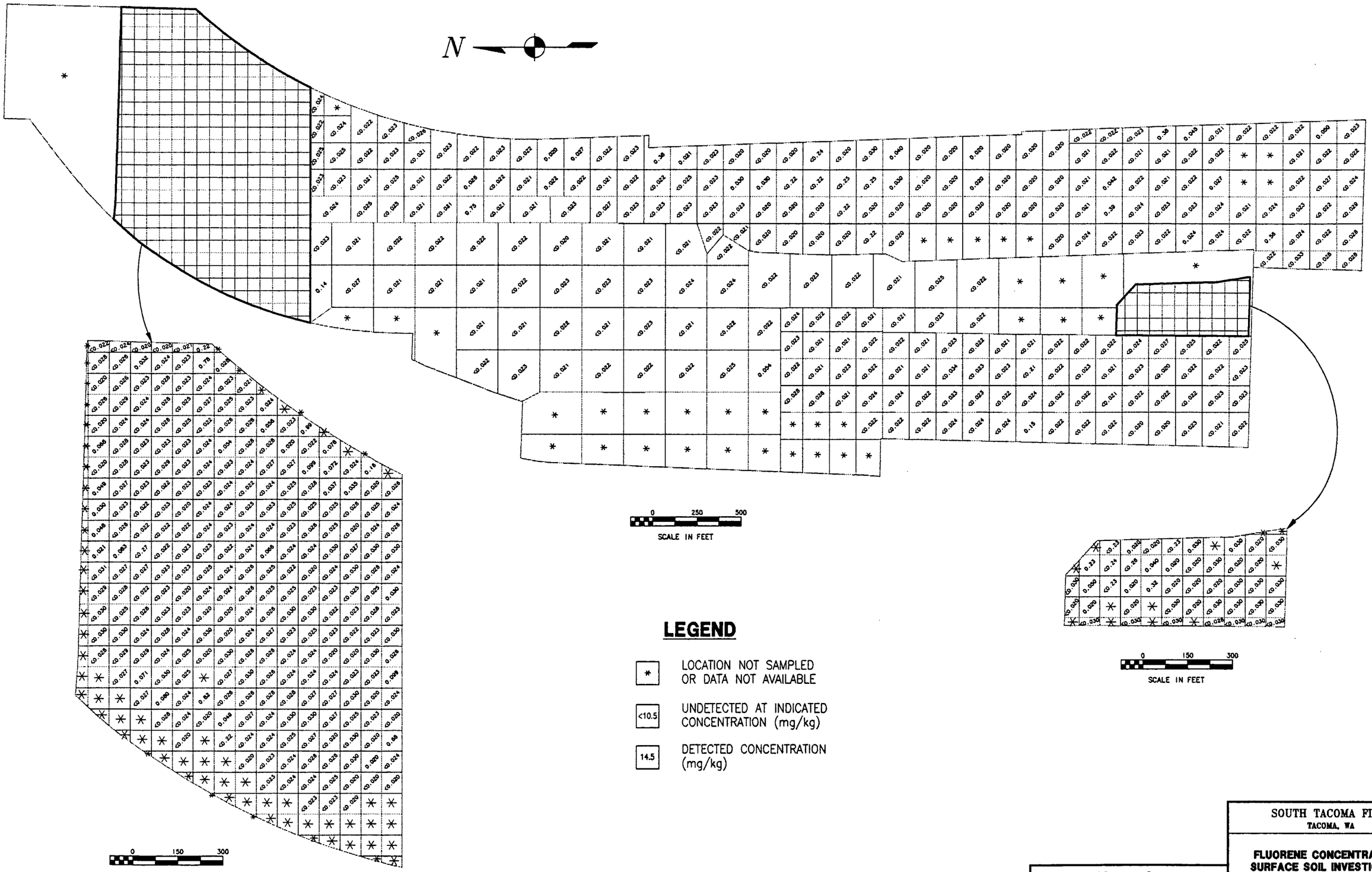
SOUTH TACOMA FIELD
TACOMA, WA

FLUORENE DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK256

FIGURE 27



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

FLUORENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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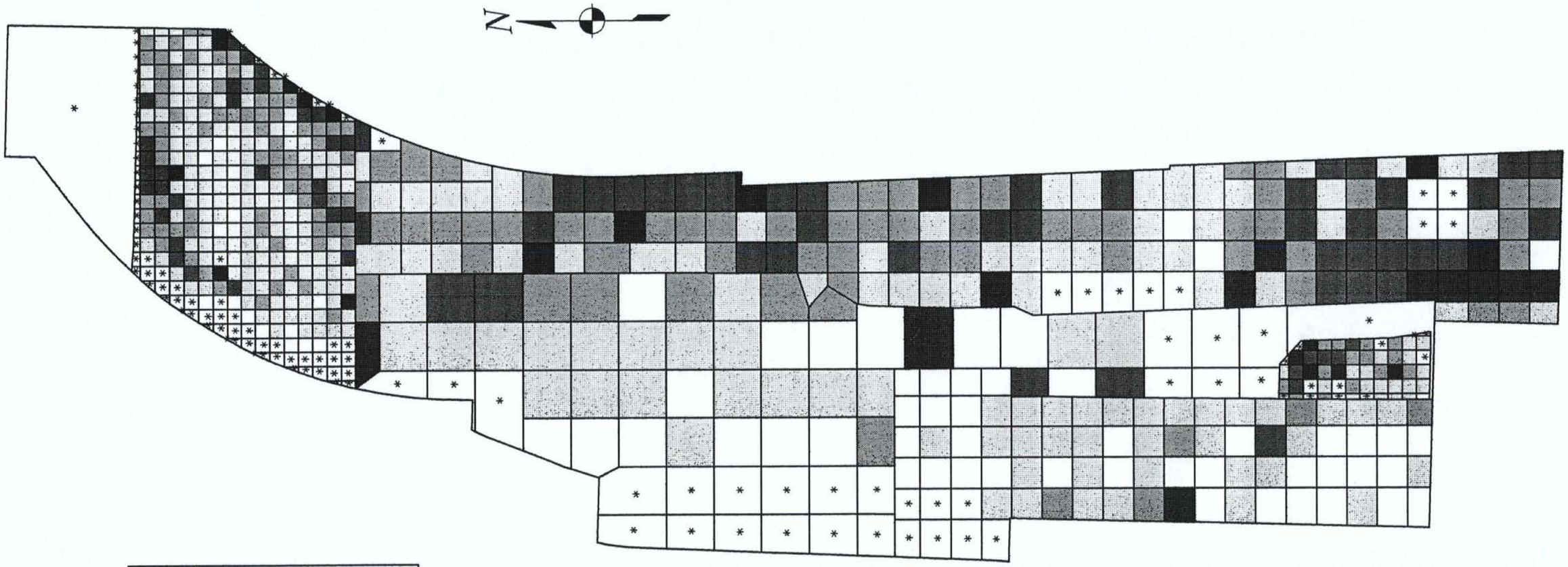
File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK209	916055.02	AS SHOWN	MBW	MJW	12/20/91

MAP 27



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.17 mg/kg
- 0.17 TO <0.48 mg/kg
- 0.48 TO <1.4 mg/kg
- ≥ 1.4 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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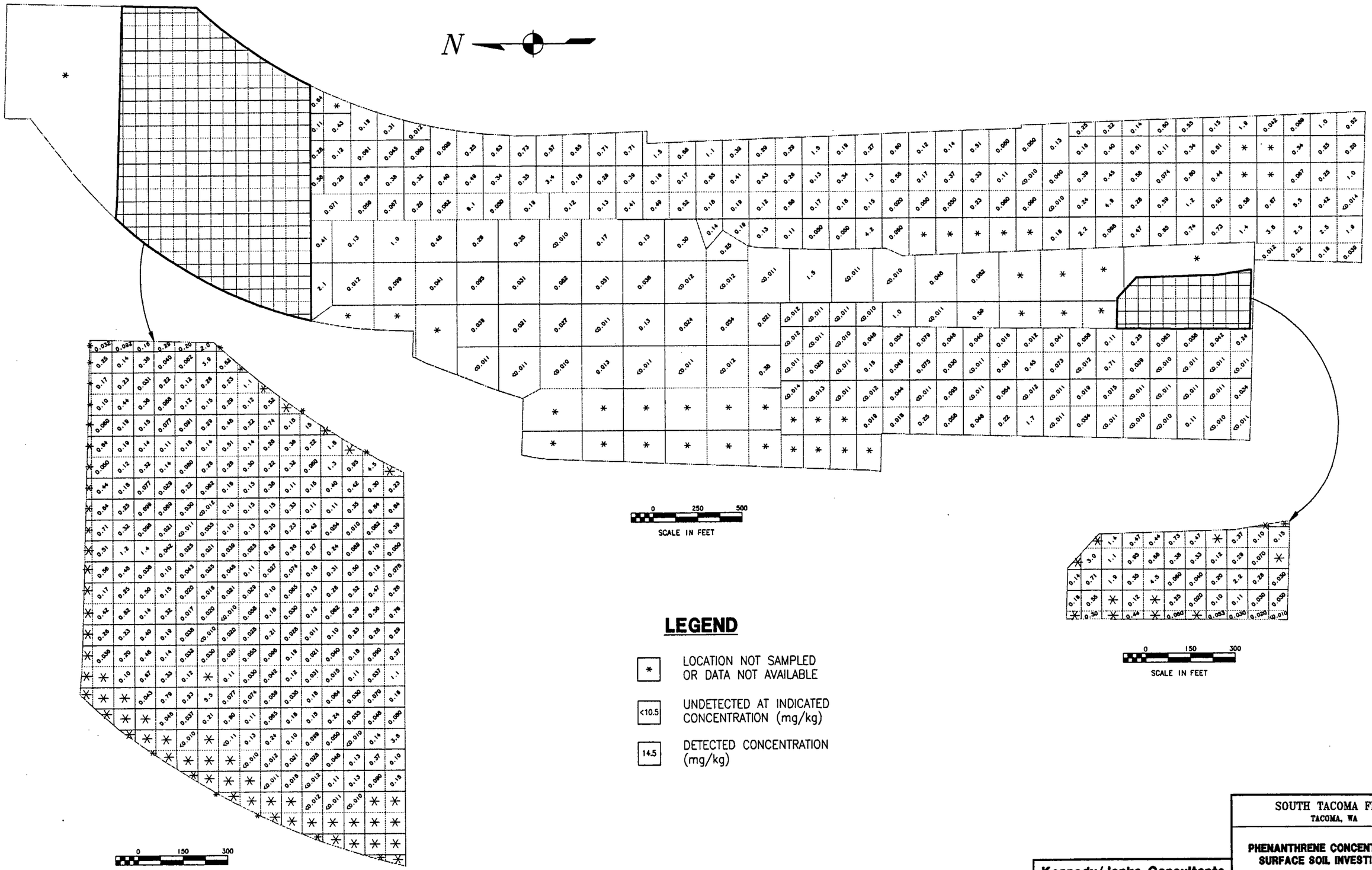
SOUTH TACOMA FIELD
TACOMA, WA

PHENANTHRENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK264

FIGURE 28



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

PHENANTHRENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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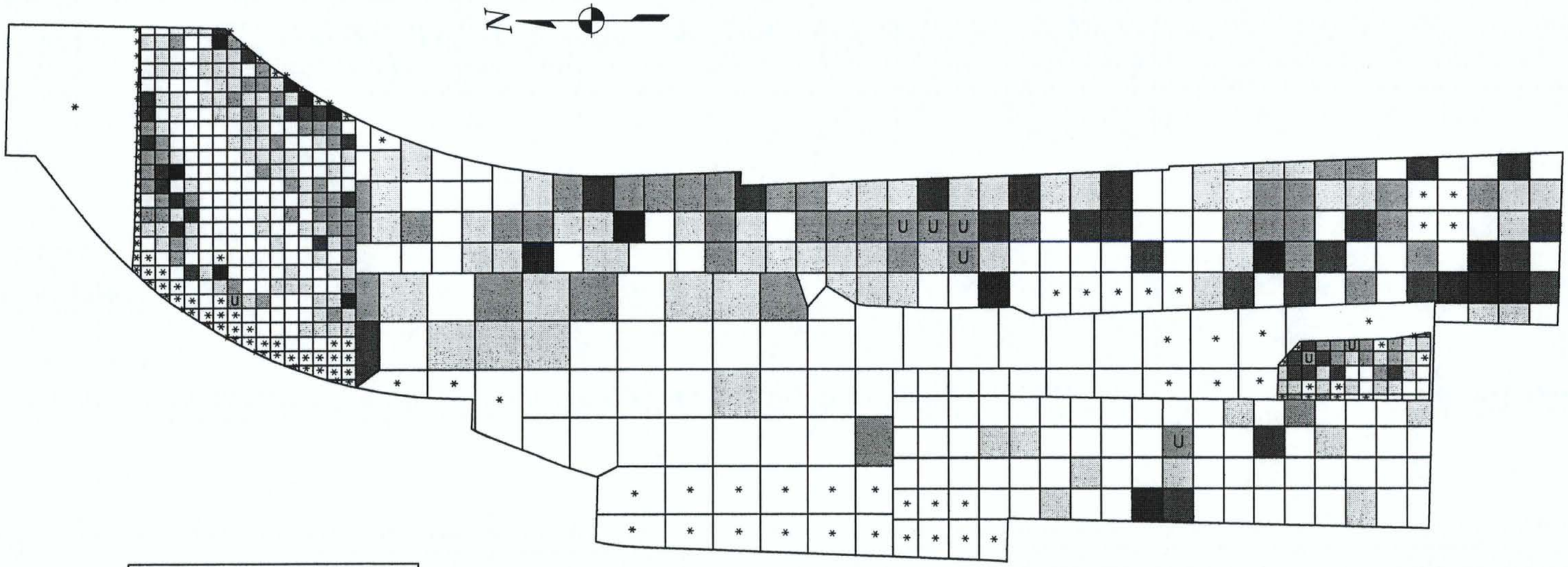
File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK210	916055.02	AS SHOWN	MBW	MJW	12/20/91

MAP 28



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.031 mg/kg
- 0.031 TO <0.090 mg/kg
- 0.090 TO <0.38 mg/kg
- ≥ 0.38 mg/kg

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

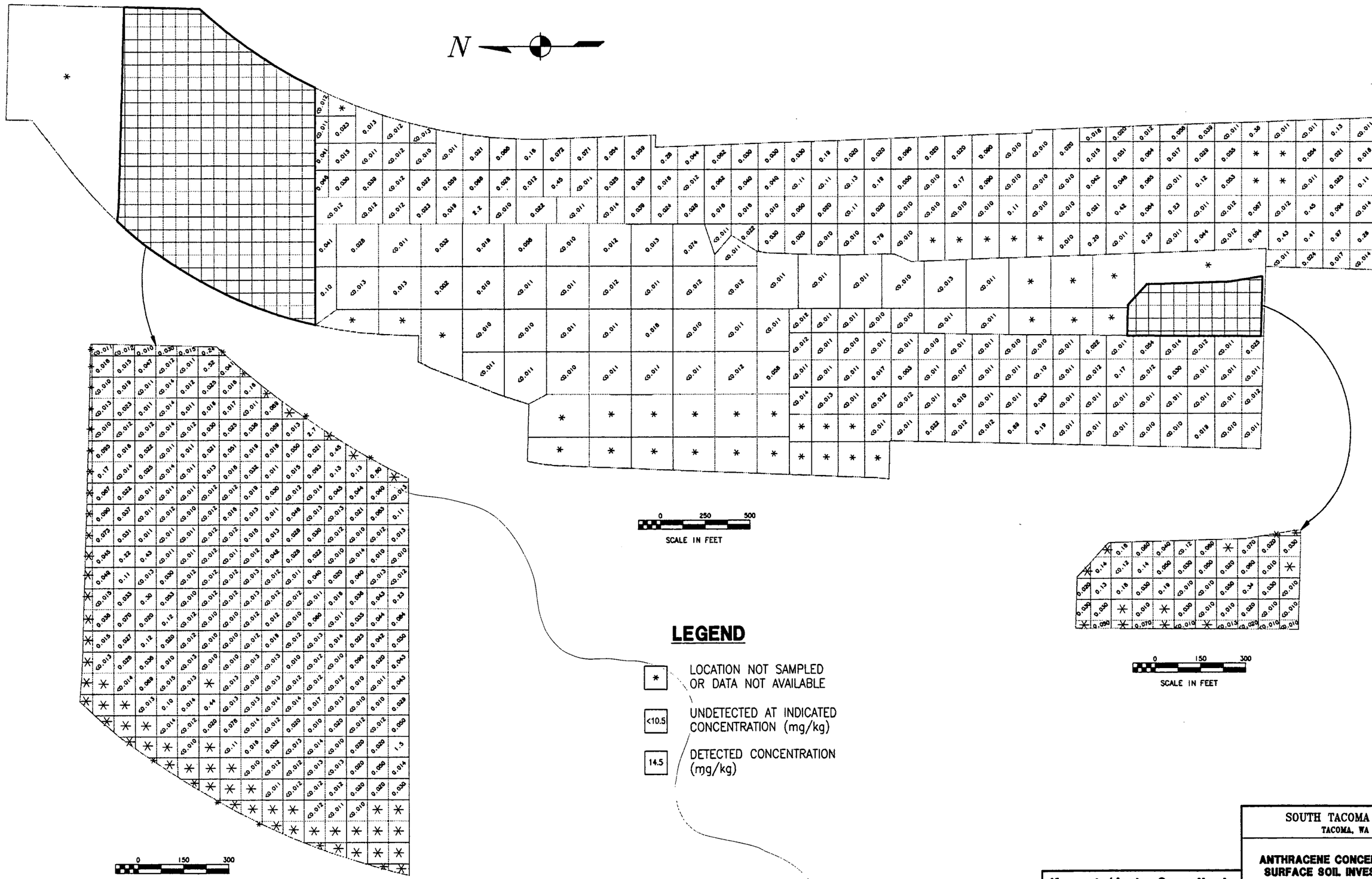
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

ANTHRACENE DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK267

FIGURE 29

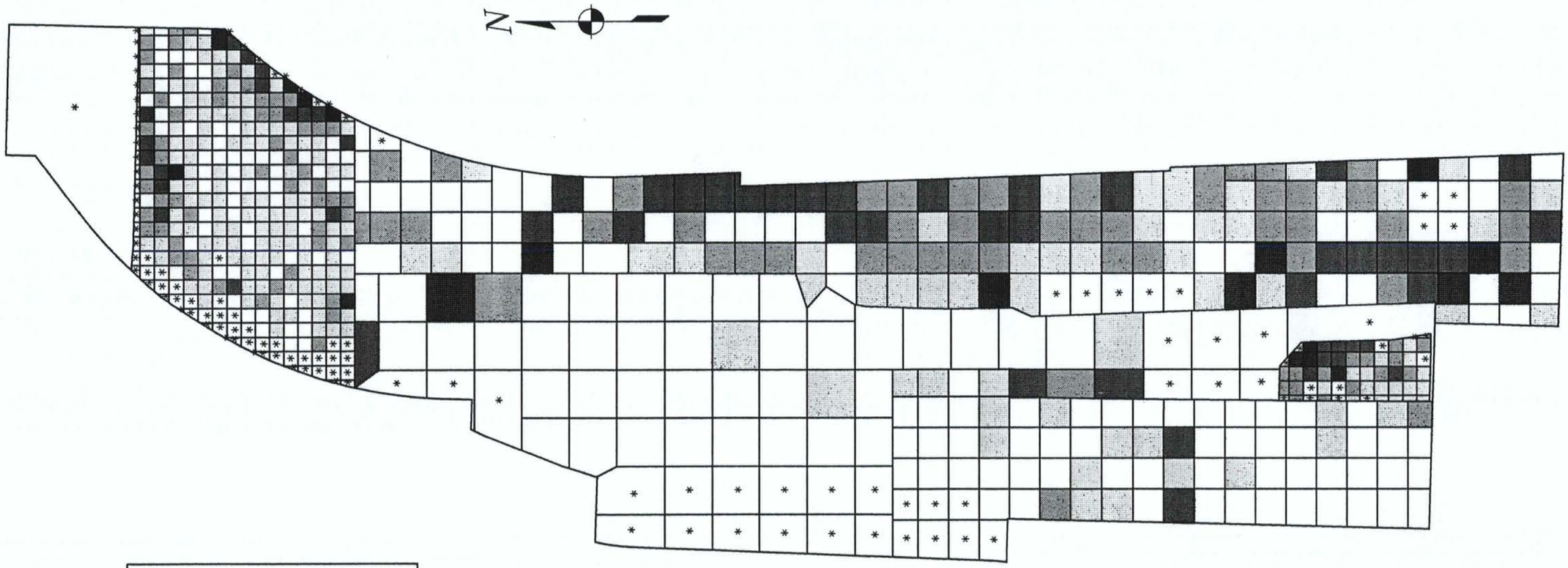


SOUTH TACOMA FIELD
TACOMA, WA

ANTHRACENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S.336TH ST Federal Way, Washington 98003
(206) 874-0556

File name P1SK211	Job No. 916055.02	Scale AS SHOWN	Drawn MEW	Chkd. MJW	MAP 29
			Date 12/20/91		



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.43 mg/kg
- 0.43 TO <1.31 mg/kg
- 1.31 TO <4.4 mg/kg
- ≥ 4.4 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

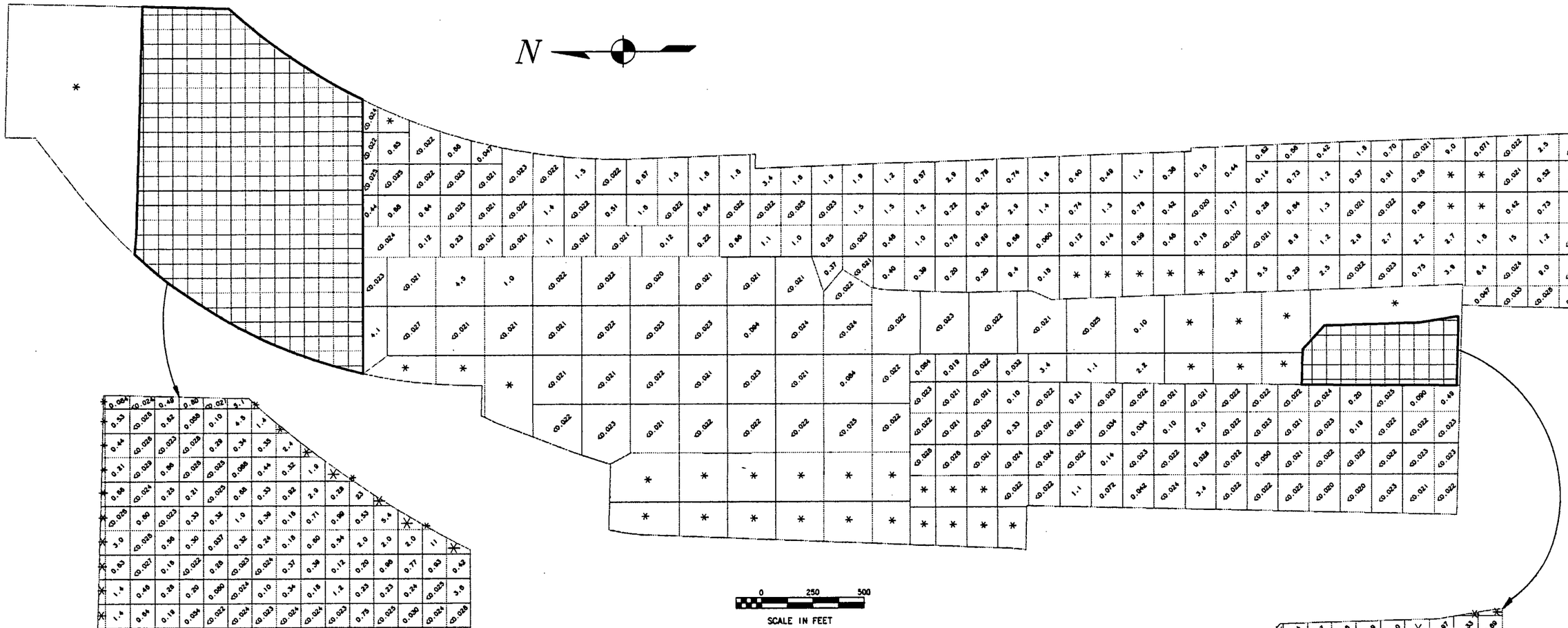
Kennedy/Jenks Consultants

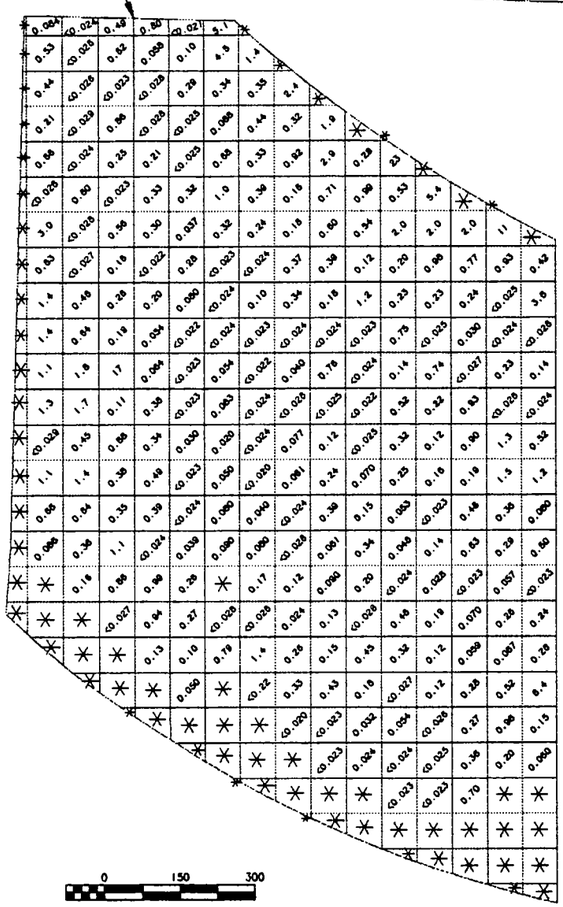
SOUTH TACOMA FIELD
TACOMA, WA

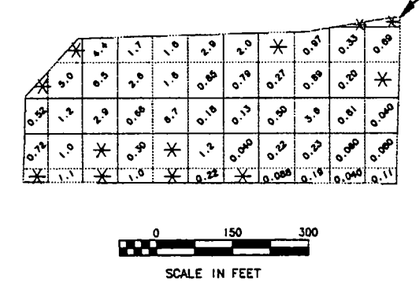
FLUORANTHENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK268

FIGURE 30







LEGEND

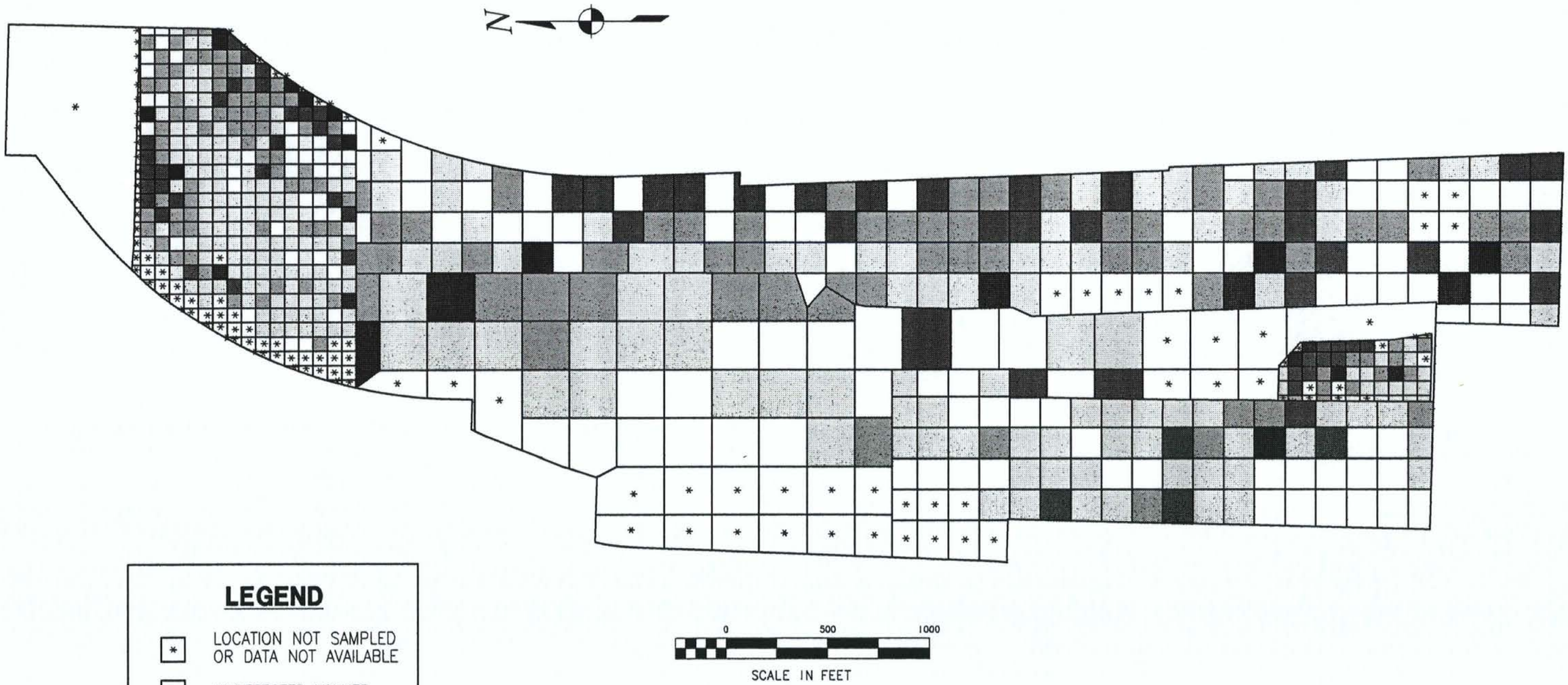
*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

FLUORANTHENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S. 336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK212	916055.02	AS SHOWN	MBW	MJW	12/20/91	MAP 30



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.25 mg/kg
- 0.25 TO <0.80 mg/kg
- 0.80 TO <3.0 mg/kg
- ≥ 3.0 mg/kg

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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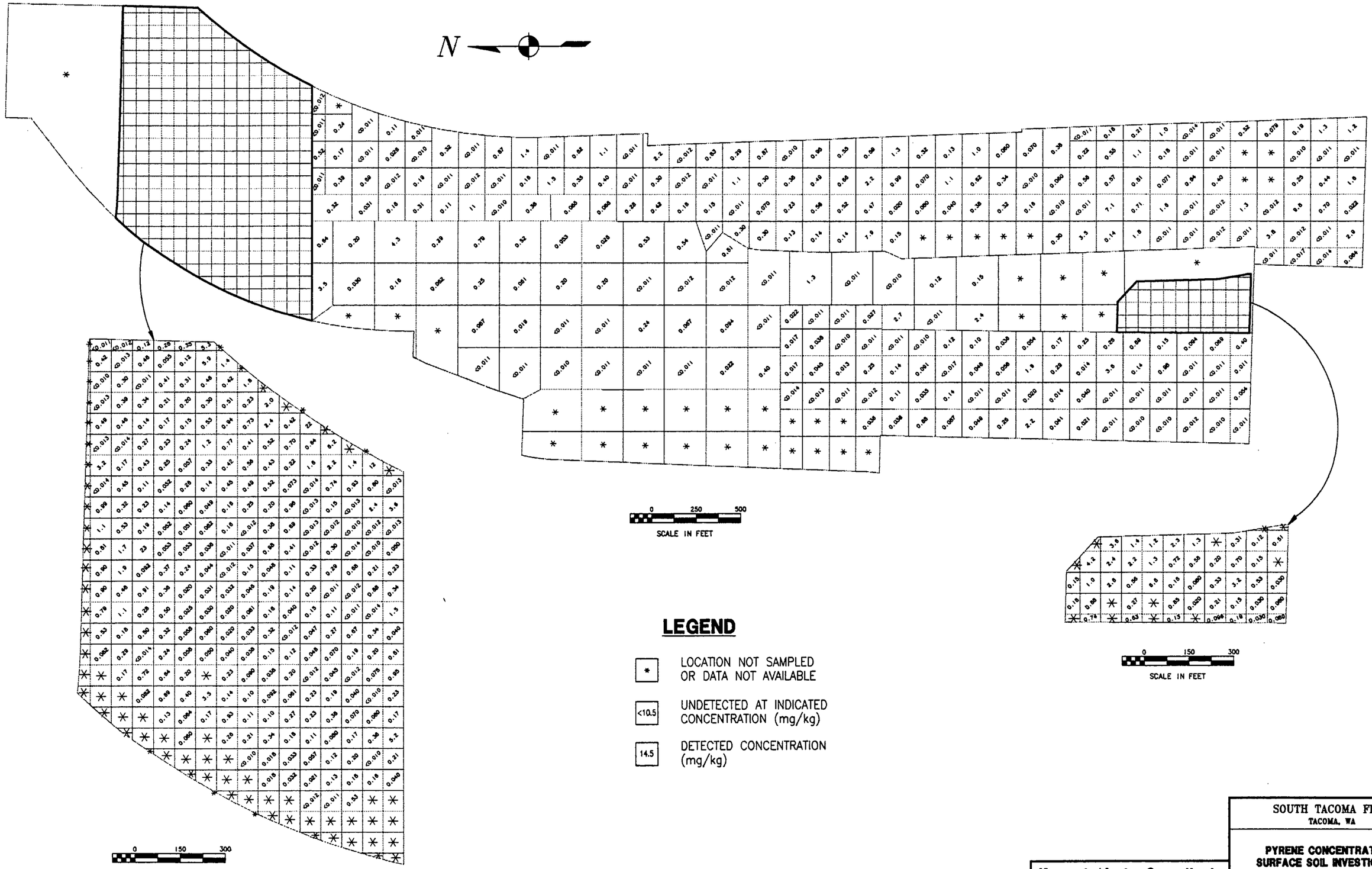
SOUTH TACOMA FIELD
TACOMA, WA

PYRENE DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK265

FIGURE 31



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

PYRENE CONCENTRATIONS
SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
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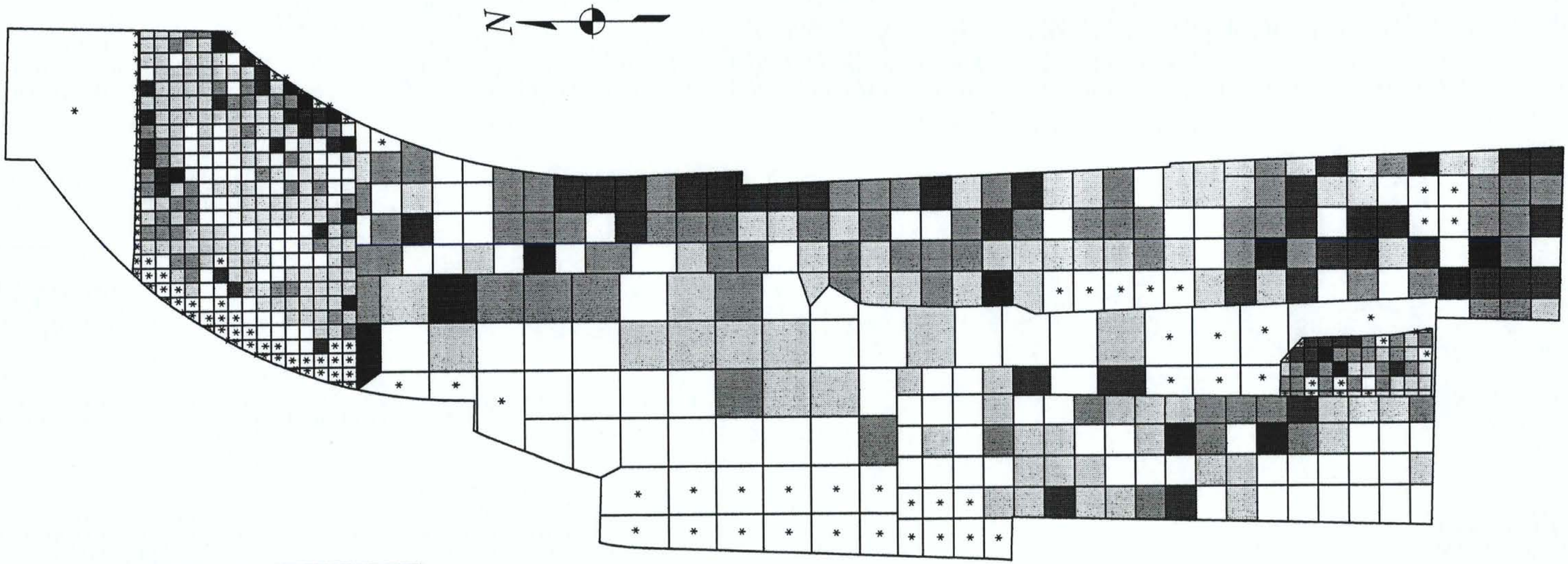
File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK213	916055.02	AS SHOWN	MBW	MJW	12/20/91

MAP 31



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.11 mg/kg
- 0.11 TO <0.32 mg/kg
- 0.32 TO <1.55 mg/kg
- ≥ 1.55 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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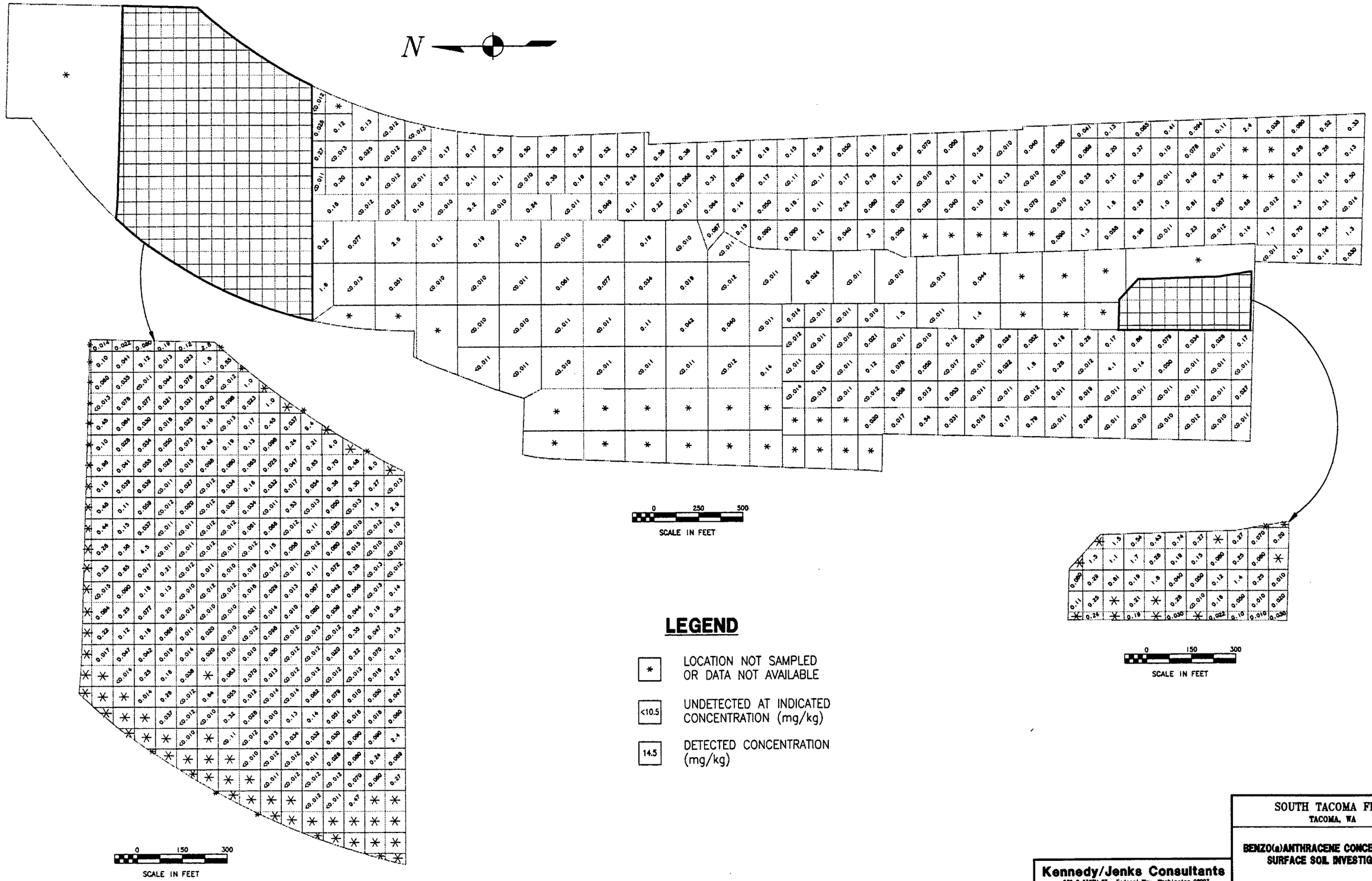
SOUTH TACOMA FIELD
TACOMA, WA

BENZO(a)ANTHRACENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK257

FIGURE 32



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

BENZO(a)ANTHRACENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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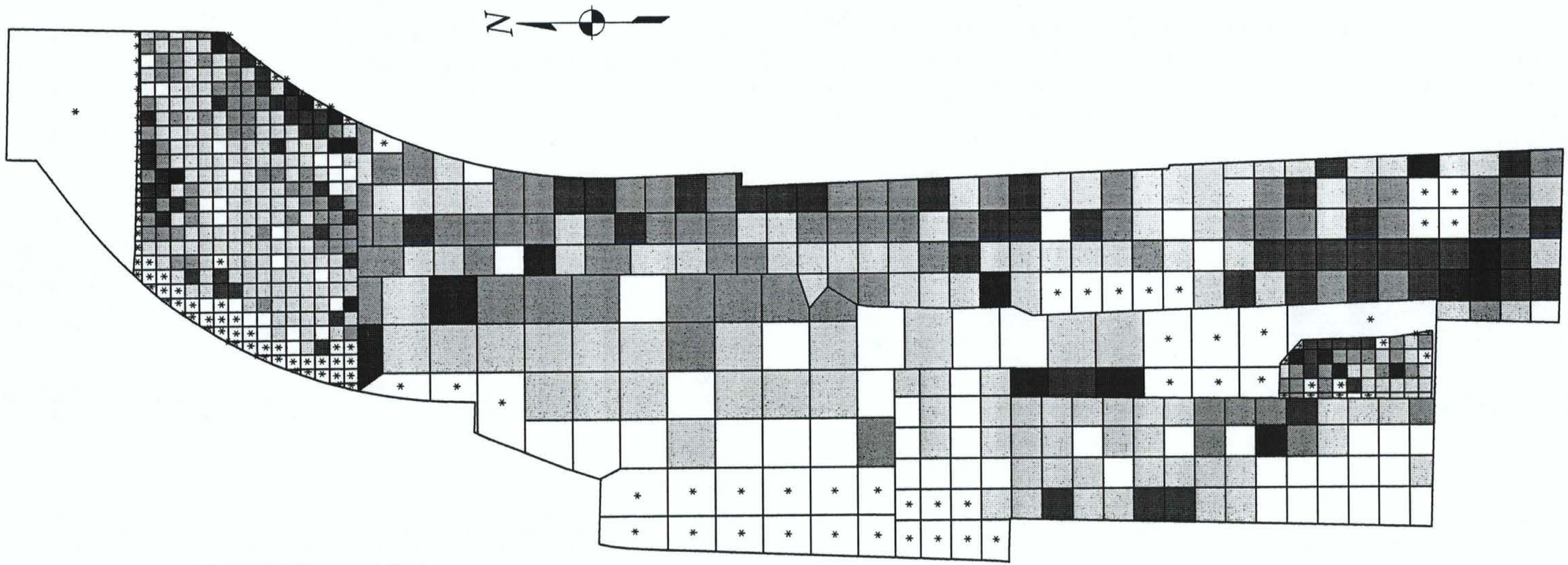
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK201	916055.02	AS SHOWN	MBW	MJW	12/20/91

MAP 32



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.15 mg/kg
- 0.15 TO <0.36 mg/kg
- 0.36 TO <1.68 mg/kg
- ≥ 1.68 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

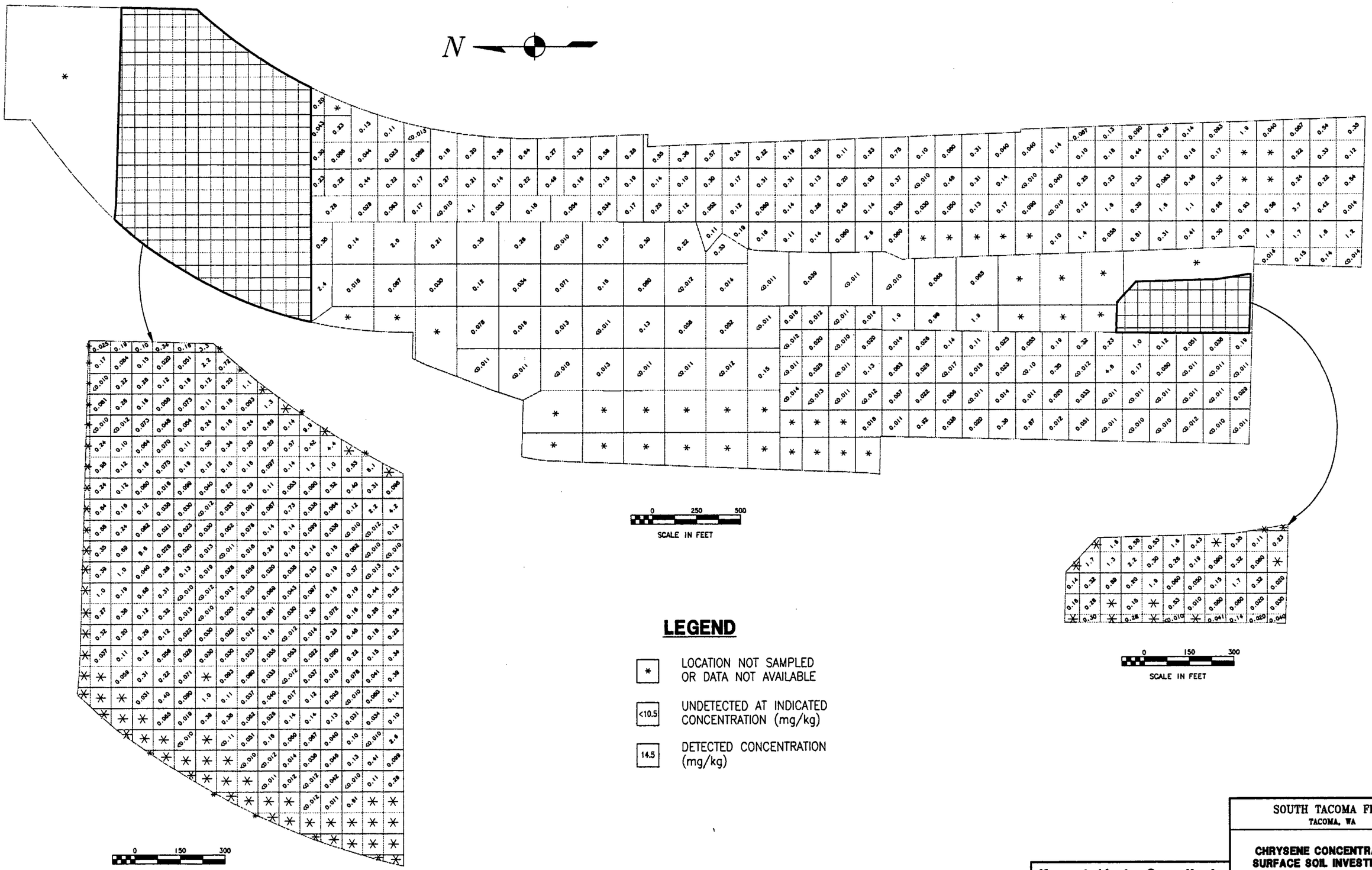
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

CHRYSENE DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK258

FIGURE 33



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

CHRYSENE CONCENTRATIONS
SURFACE SOIL INVESTIGATION

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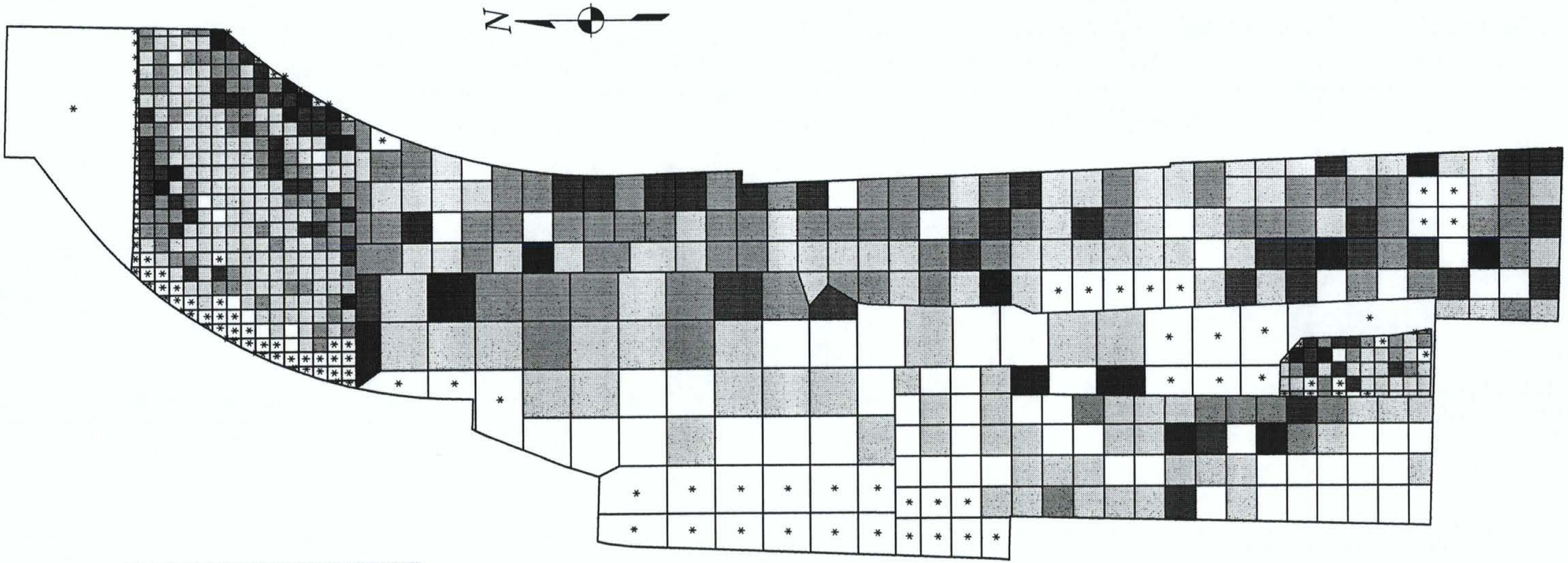
File name	Job No.	Scale	Drawn	Chkd.	Date
PISK202	916055.02	AS SHOWN	MEW	MJW	12/20/91

MAP 33



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.16 mg/kg
- 0.16 TO <0.43 mg/kg
- 0.43 TO <1.65 mg/kg
- ≥ 1.65 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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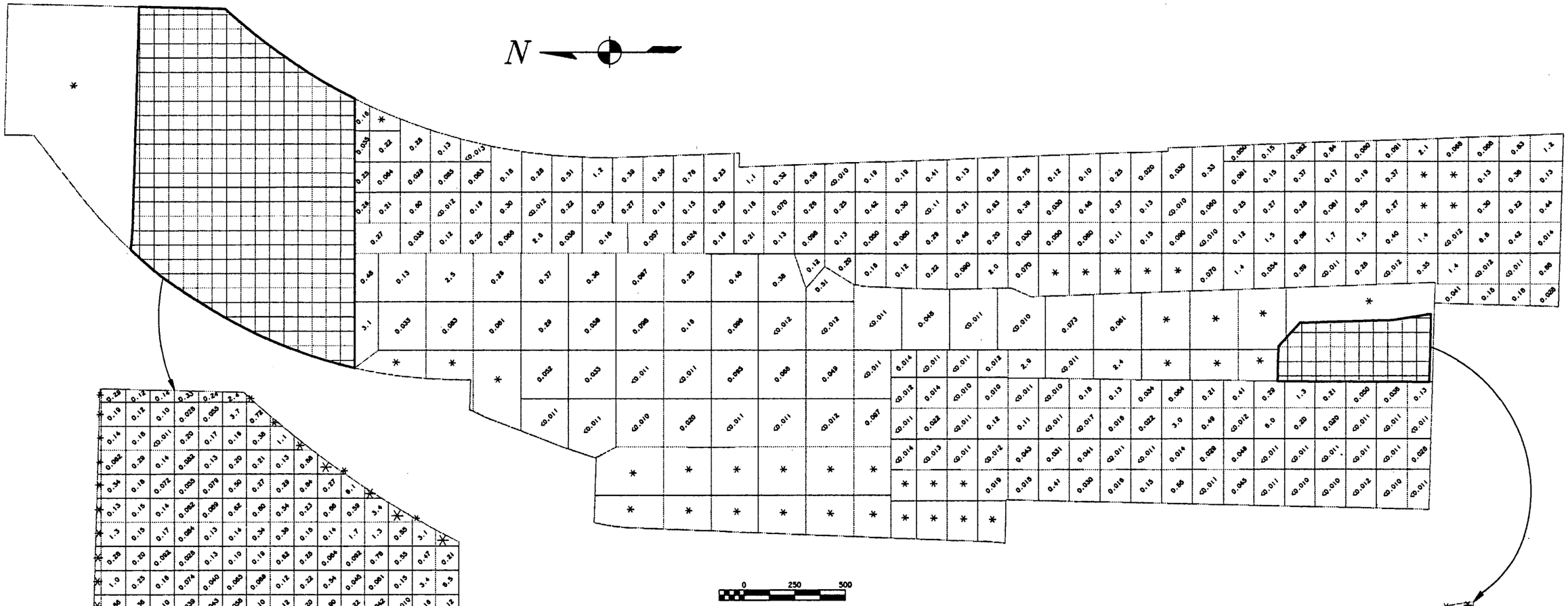
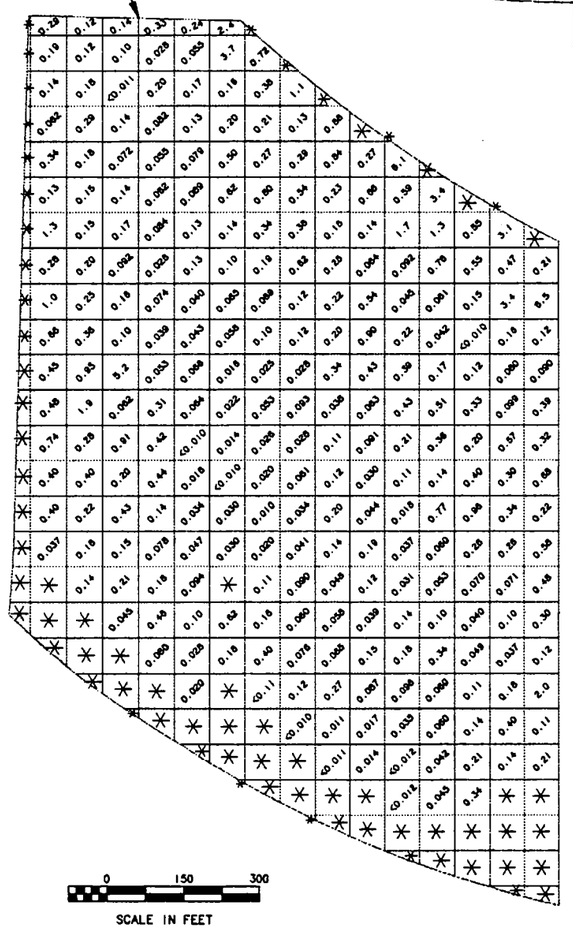
SOUTH TACOMA FIELD
TACOMA, WA

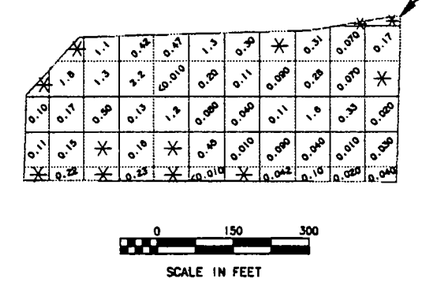
BENZO(b)FLUORANTHENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK259

FIGURE 34







LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

BENZO(b)FLUORANTHENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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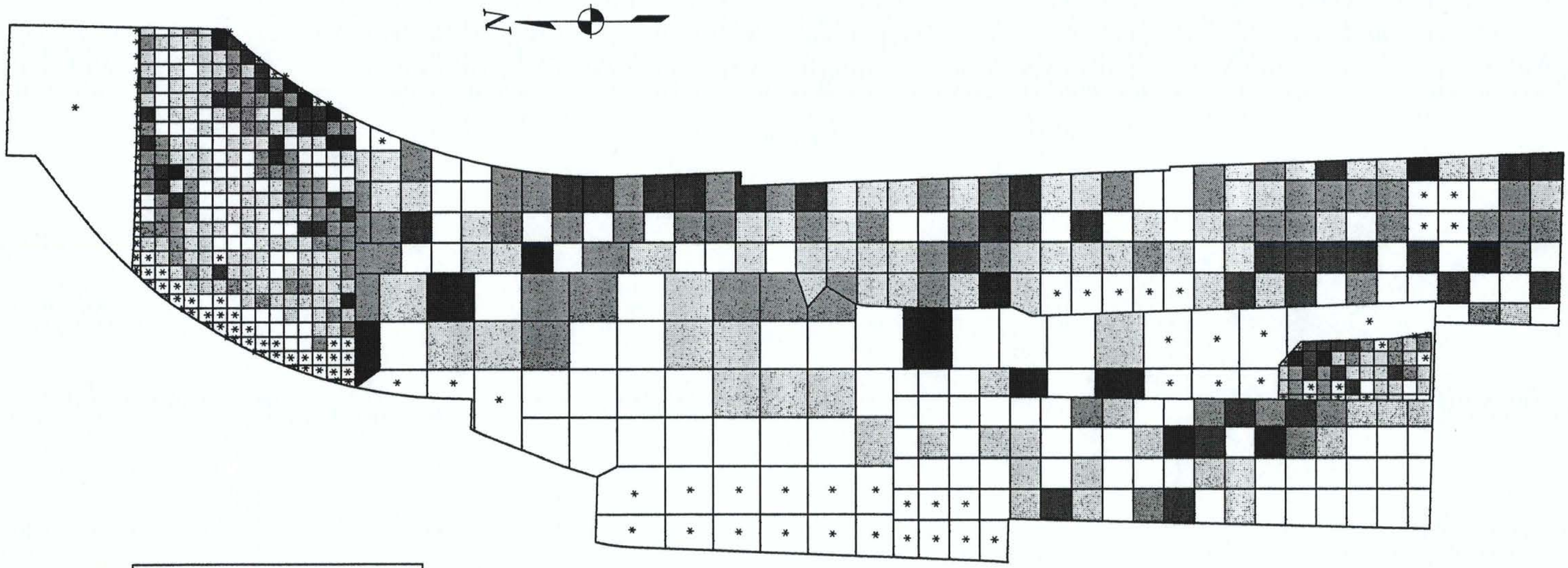
File name	Job No.	Scale	Drawn	Chkd.	Date	
PISK203	916055.02	AS SHOWN	MBW	MJW	12/20/91	MAP 34



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.081 mg/kg
- 0.081 TO <0.25 mg/kg
- 0.25 TO <0.95 mg/kg
- ≥ 0.95 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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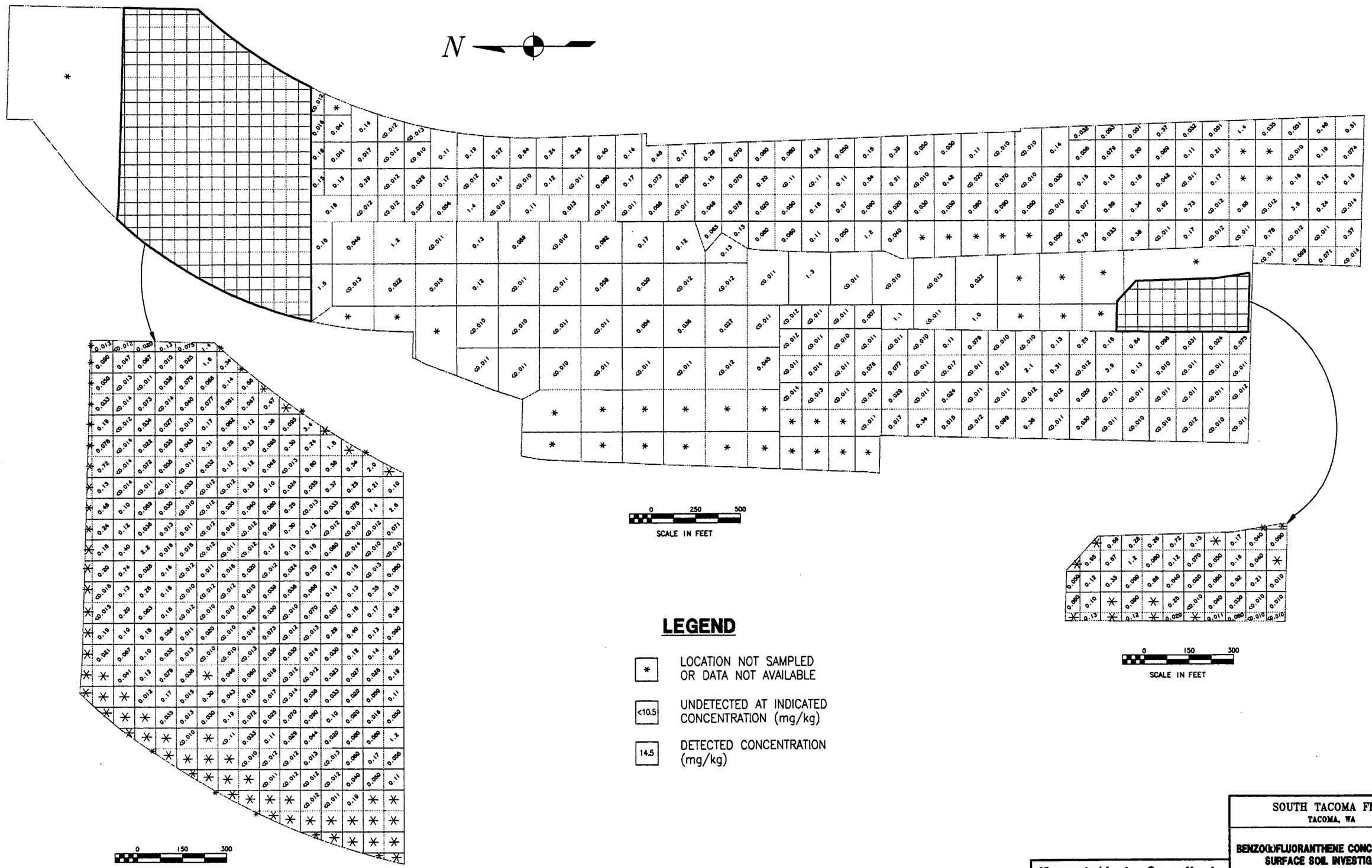
SOUTH TACOMA FIELD
TACOMA, WA

BENZO(k)FLUORANTHENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK260

FIGURE 35



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

BENZO(b)FLUORANTHENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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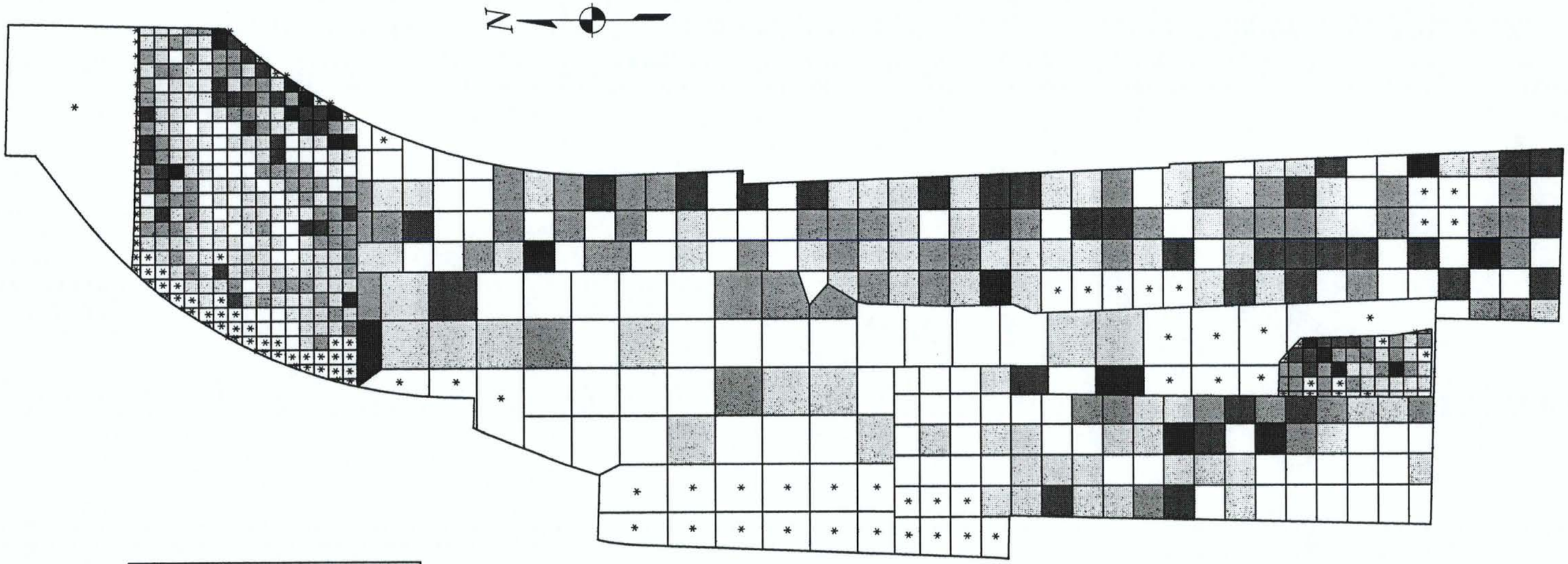
File name	Job No.	Scale	Drawn	Chkd.	Date
PISK204	916055.02	AS SHOWN	MBW	MJW	12/20/91

MAP 35



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.15 mg/kg
- 0.15 TO <0.43 mg/kg
- 0.43 TO <1.8 mg/kg
- ≥ 1.8 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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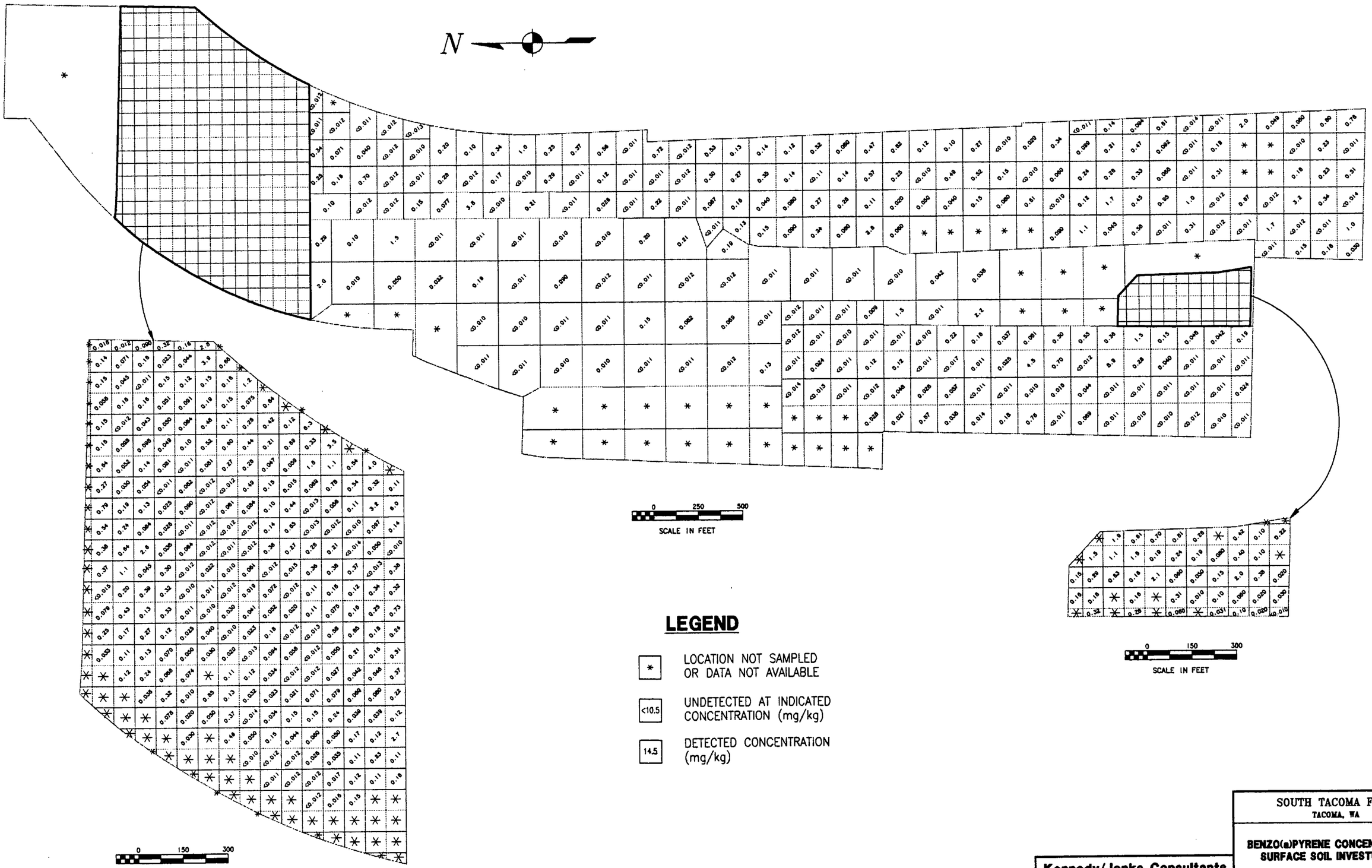
SOUTH TACOMA FIELD
TACOMA, WA

BENZO(a)PYRENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK261

FIGURE 36



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

BENZO(a)PYRENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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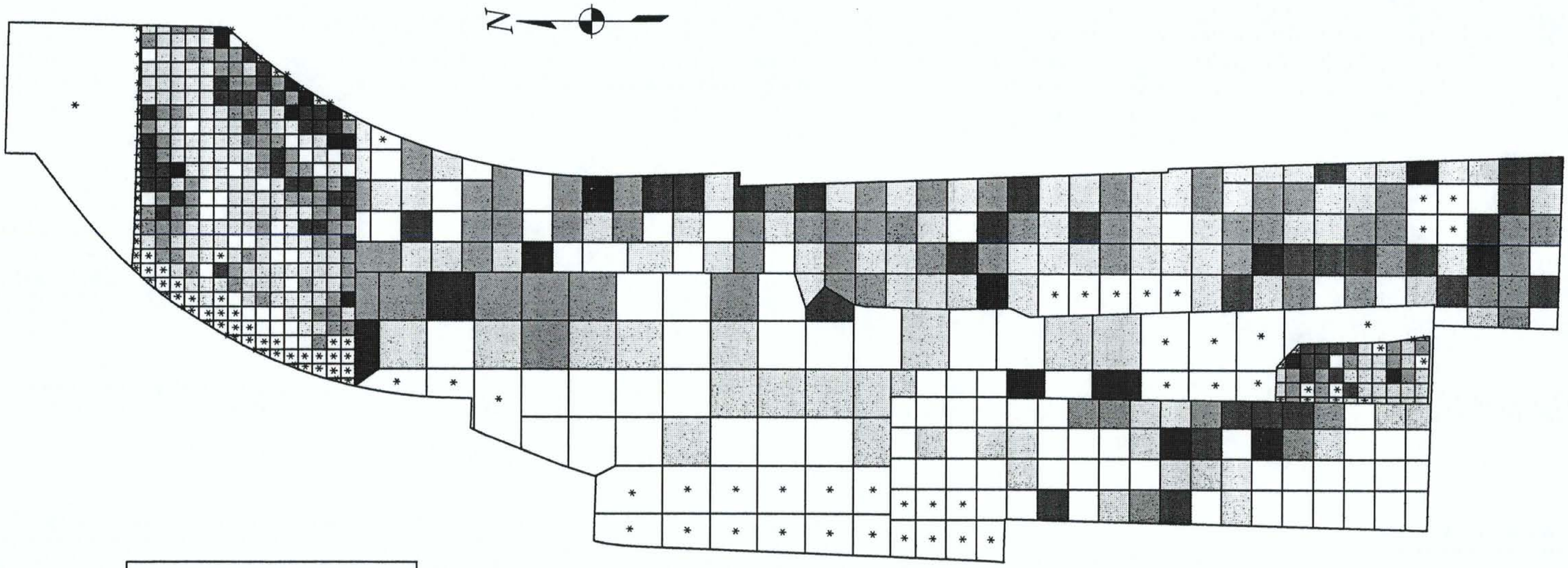
File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK205	916055.02	AS SHOWN	MBW	MJW	12/20/91

MAP 36



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.11 mg/kg
- 0.11 TO <0.31 mg/kg
- 0.31 TO <1.1 mg/kg
- ≥ 1.1 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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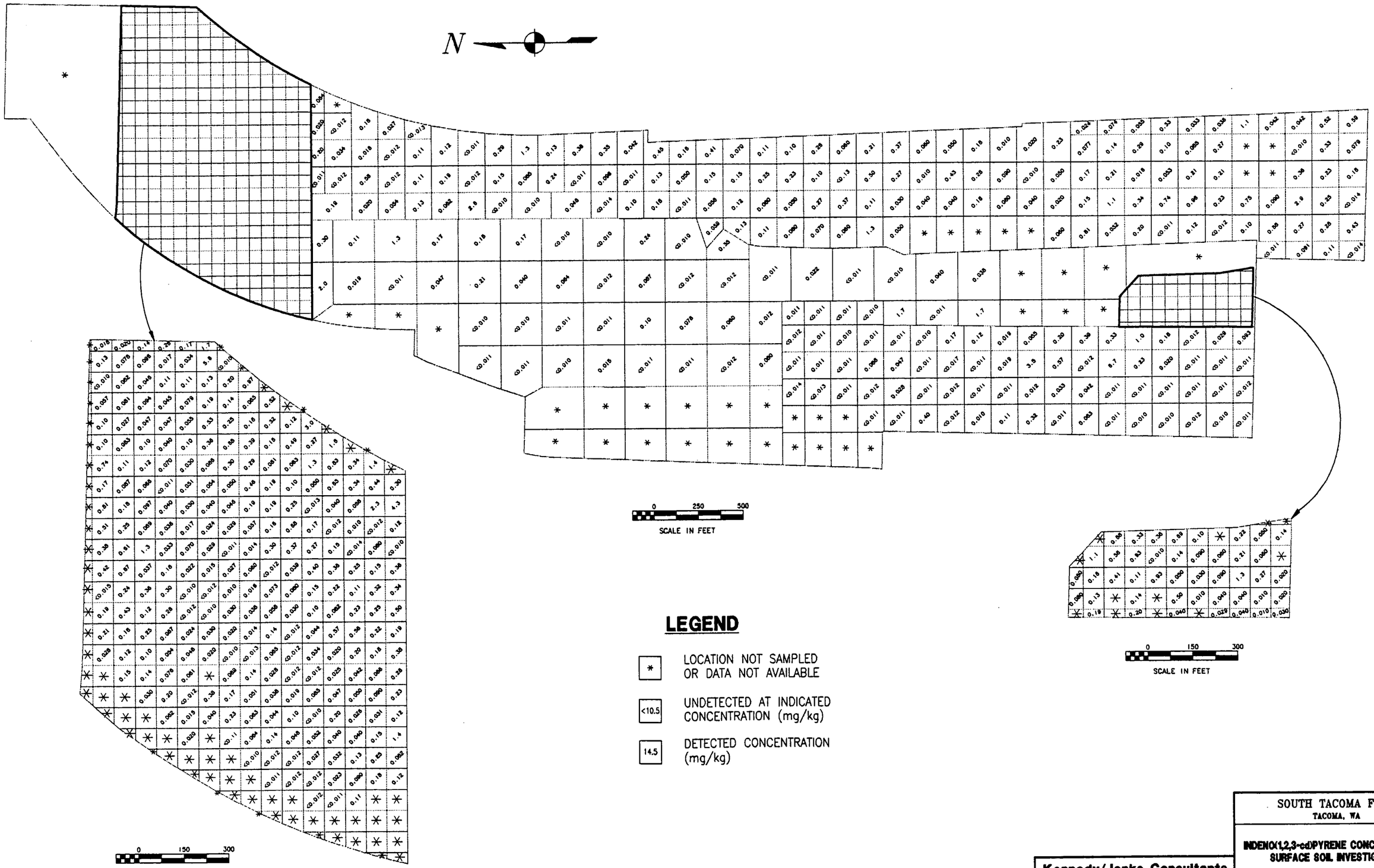
SOUTH TACOMA FIELD
TACOMA, WA

INDENO(1,2,3-cd)PYRENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK262

FIGURE 37



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

INDENO(1,2,3-cd)PYRENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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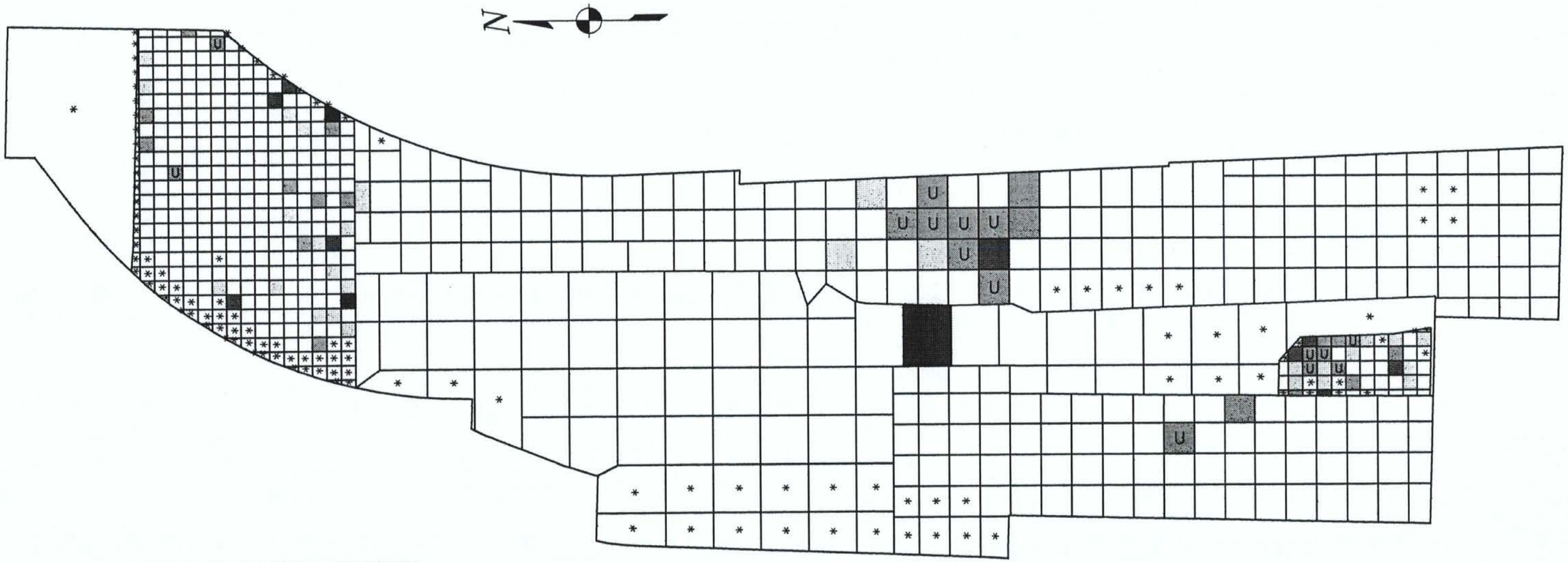
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK208	916055.02	AS SHOWN	MEW	MJW	12/20/91	MAP 37



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.051 mg/kg
- 0.051 TO <0.16 mg/kg
- 0.16 TO <0.48 mg/kg
- ≥ 0.48 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT AND IS GRAPHICALLY PRESENTED AT A VALUE EQUAL TO ONE-HALF THE DETECTION LIMIT.

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

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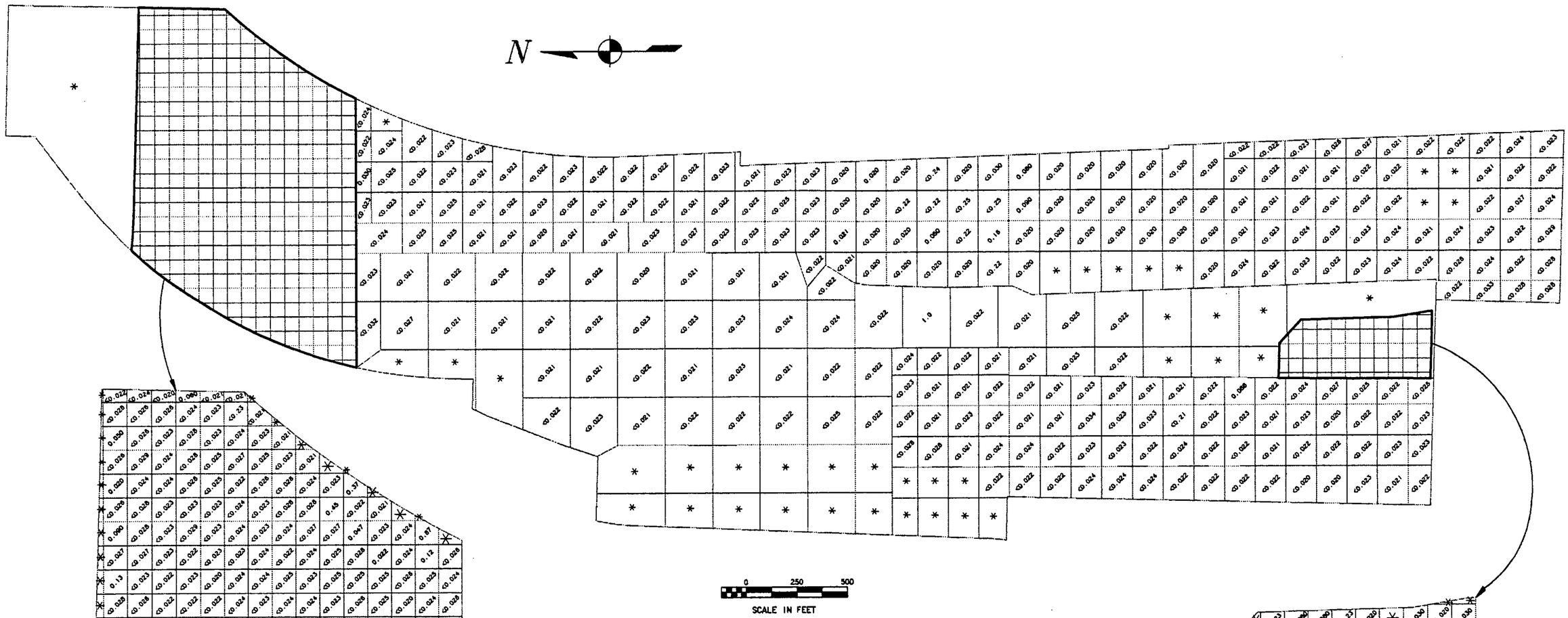
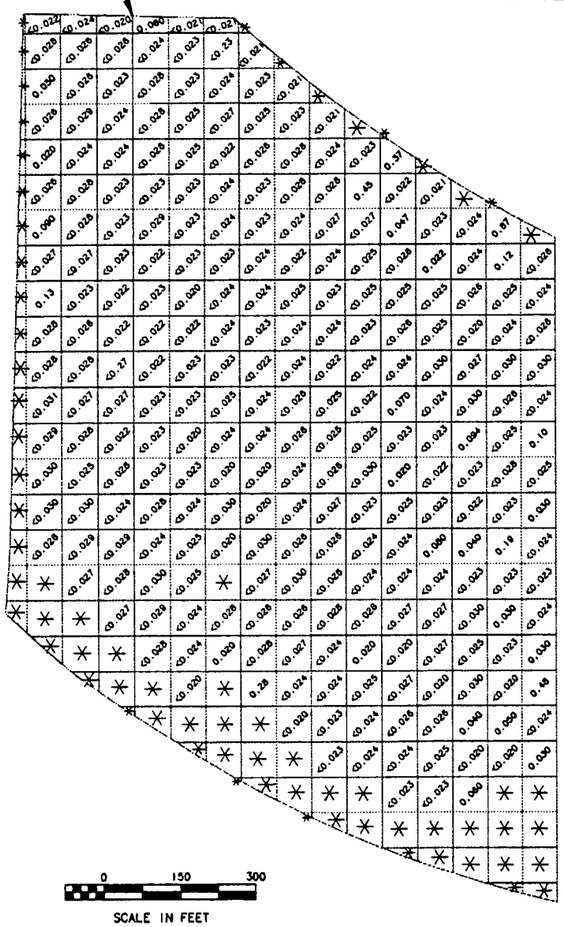
SOUTH TACOMA FIELD
TACOMA, WA

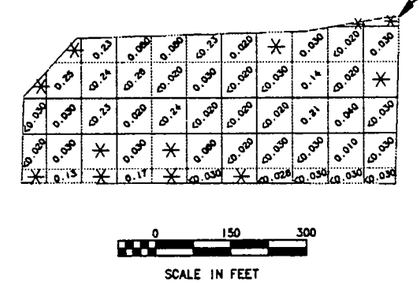
DIBENZO(a,h)ANTHRACENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK263

FIGURE 38







LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

DIBENZO(a,h)ANTHRACENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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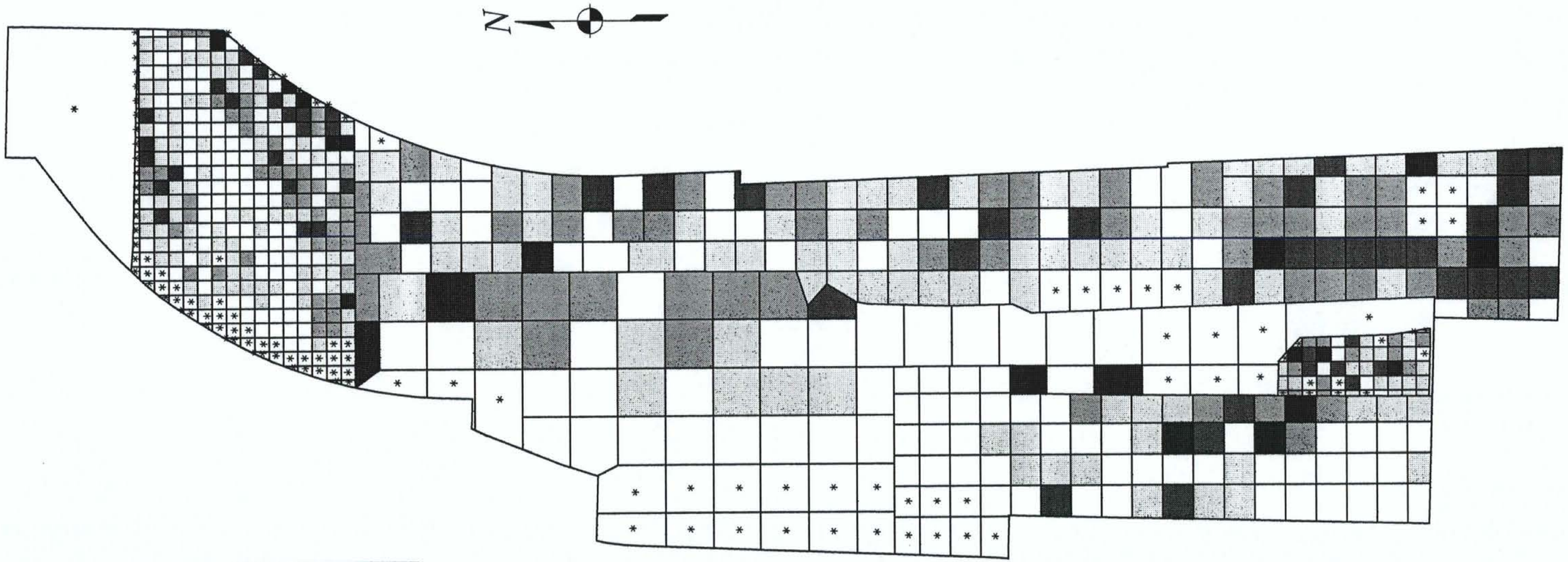
File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK207	916055.02	AS SHOWN	MBW	MJW	12/20/91	MAP 38



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.15 mg/kg
- 0.15 TO <0.38 mg/kg
- 0.38 TO <1.29 mg/kg
- ≥ 1.29 mg/kg

0 500 1000

SCALE IN FEET

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

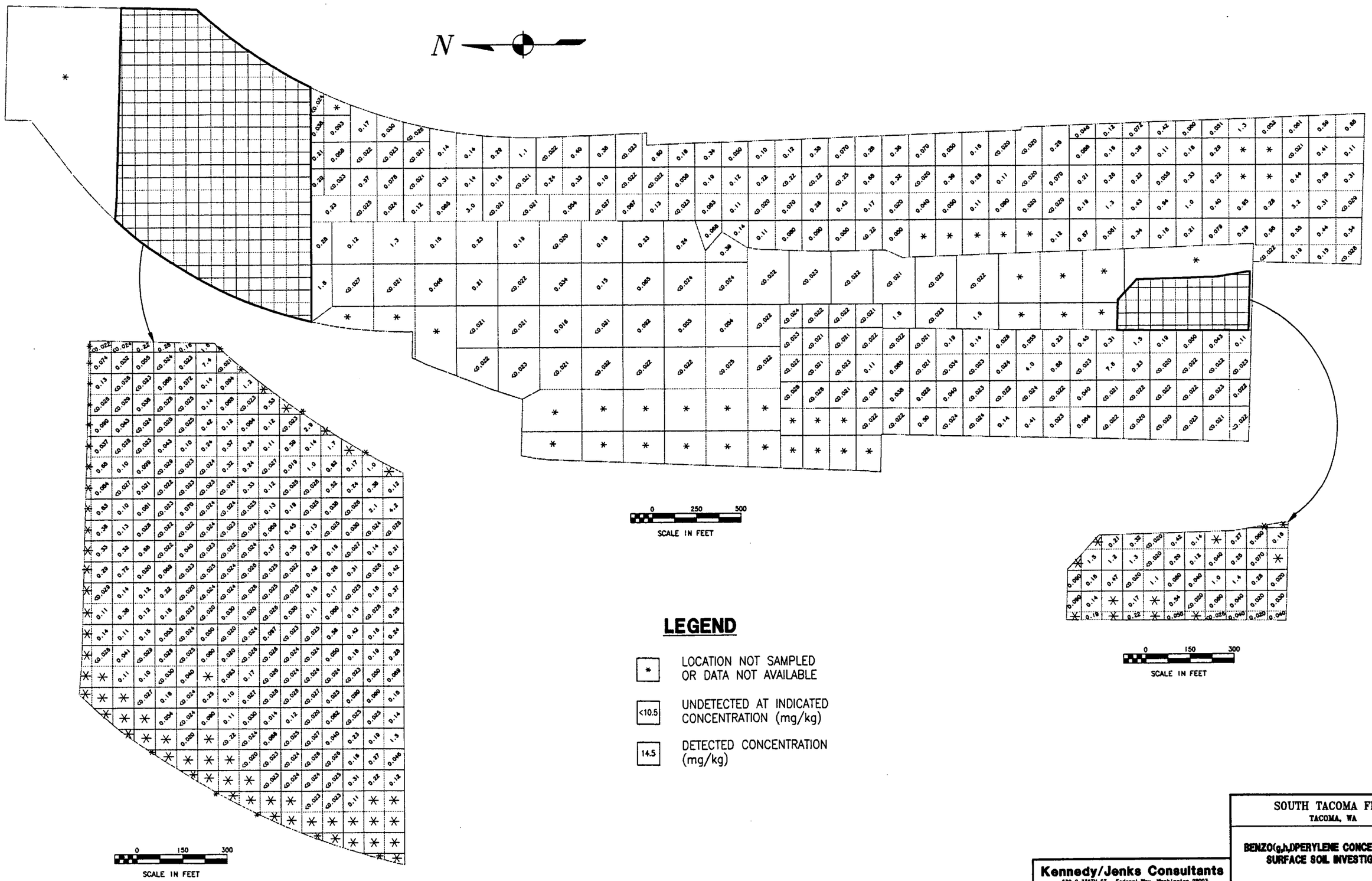
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

BENZO(g,h,i)PERYLENE DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK266

FIGURE 39



LEGEND

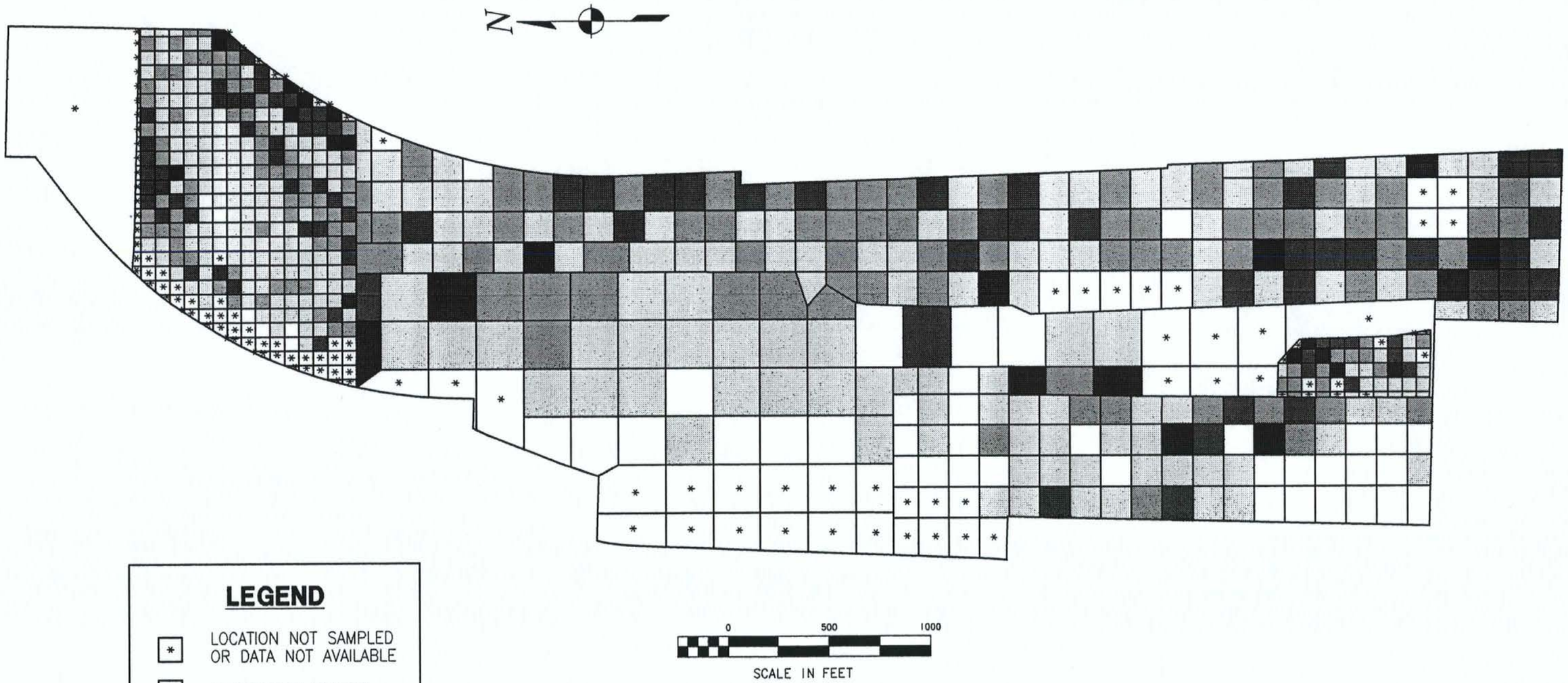
*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

BENZO(g,h,i)PERYLENE CONCENTRATIONS
SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK214	916055.02	AS SHOWN	MEW	MJW	12/20/91	MAP 39



LEGEND

- * LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- UNDETECTED VALUES
- 0 TO <0.66 mg/kg
- 0.66 TO <1.75 mg/kg
- 1.75 TO <7.5 mg/kg
- ≥ 7.5 mg/kg

NOTES:

1. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

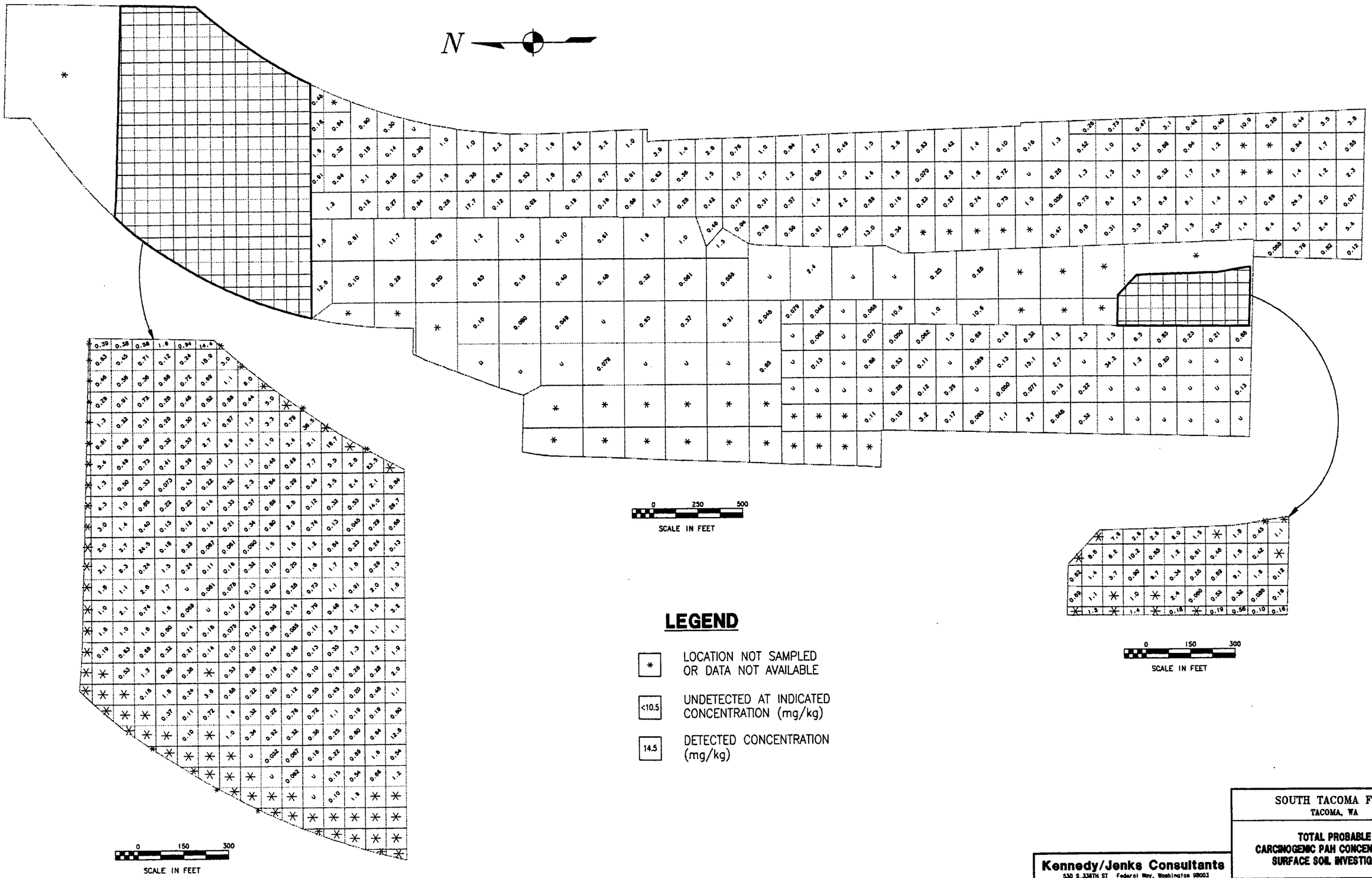
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

TOTAL PROBABLE CARCINOGENIC PAH DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK269

FIGURE 40



LEGEND

*	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
14.5	DETECTED CONCENTRATION (mg/kg)

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File name P1SK215 | Job No. 916055.02 | Scale AS SHOWN

SOUTH TACOMA FIELD
TACOMA, WA

TOTAL PROBABLE CARCINOGENIC PAH CONCENTRATIONS SURFACE SOIL INVESTIGATION

Drawn GAL | Chkd. MJW | Date 12/20/91

MAP 40

LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- U2 — UNDETECTED VALUES
- 0 TO <180 ug/kg
- 180 TO <340 ug/kg
- 340 TO <1,400 ug/kg
- ≥ 1,400 ug/kg

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT. RANGES FOR UNDETECTED VALUES ARE:

   U1 – 0 TO <180 ug/kg
   U2 – 180 TO <340 ug/kg
   U3 – 340 TO <1,400 ug/kg
   U4 – ≥ 1,400 ug/kg

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

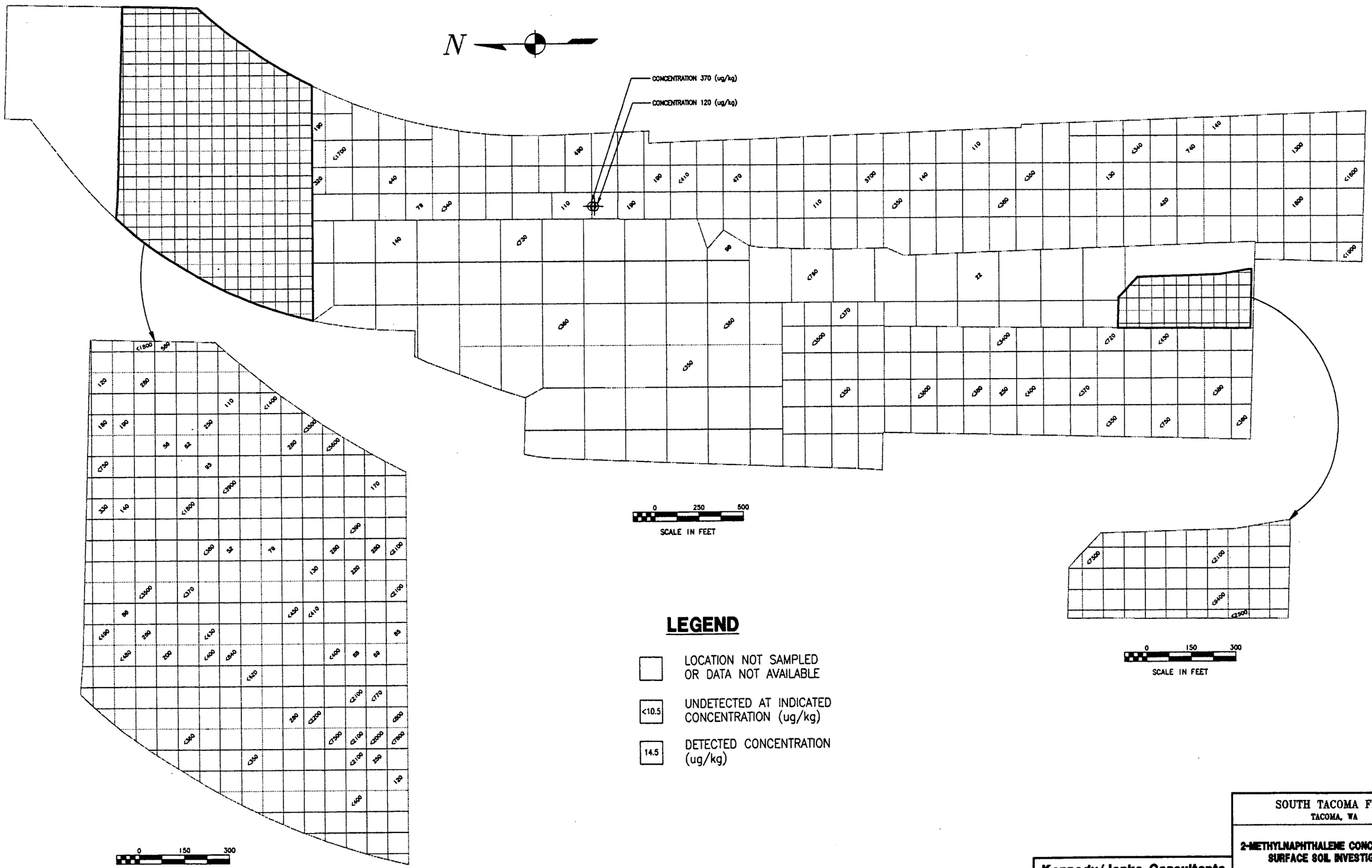
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

2-METHYLNAPHTHALENE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK300

FIGURE 41



LEGEND

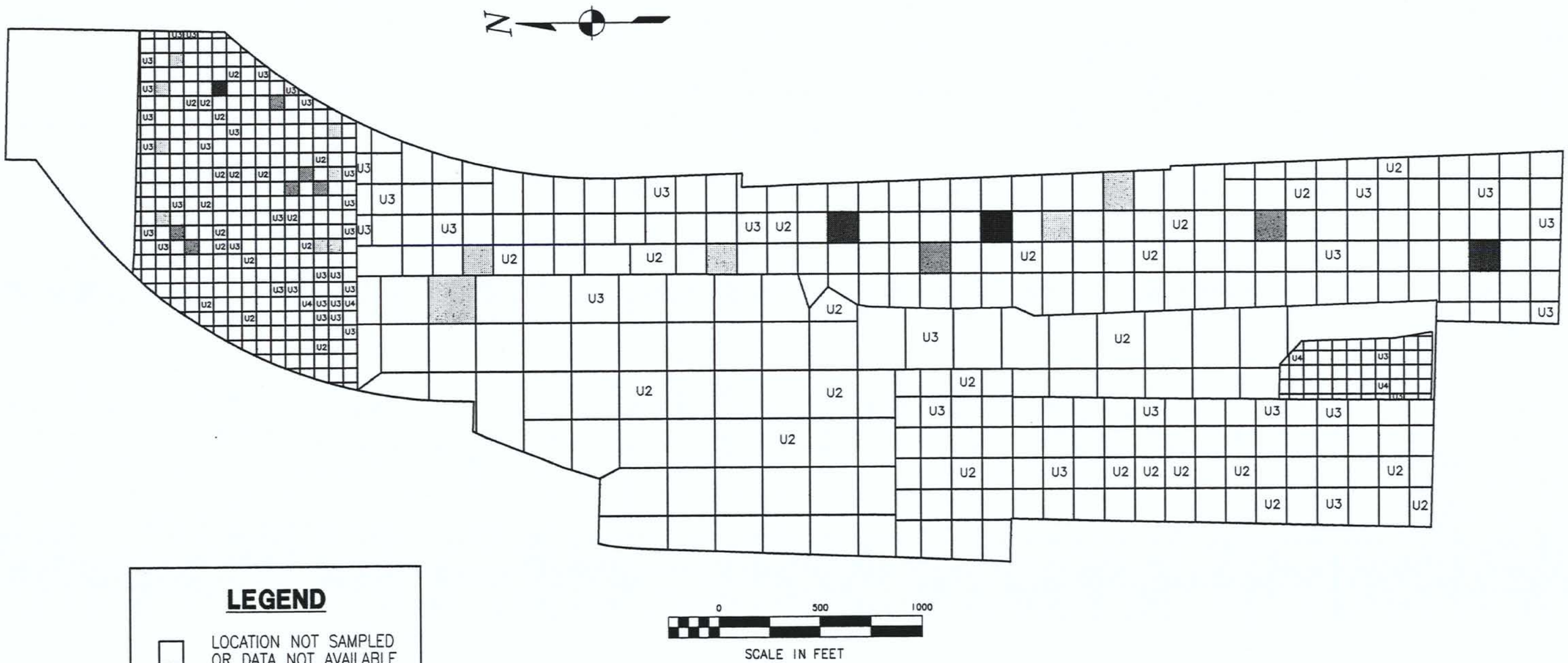
	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (ug/kg)
14.5	DETECTED CONCENTRATION (ug/kg)

SOUTH TACOMA FIELD
TACOMA, WA

2-METHYLNAPHTHALENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK221	916055.02	AS SHOWN	GAL	MJW	12/20/91	MAP 41



LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- U2 — UNDETECTED VALUES
- 0 TO <95 ug/kg
- 95 TO <220 ug/kg
- 220 TO <3,100 ug/kg
- ≥ 3,100 ug/kg

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT. RANGES FOR UNDETECTED VALUES ARE:

   U1 – 0 TO <95 ug/kg
   U2 – 95 TO <220 ug/kg
   U3 – 220 TO <3,100 ug/kg
   U4 – ≥ 3,100 ug/kg

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

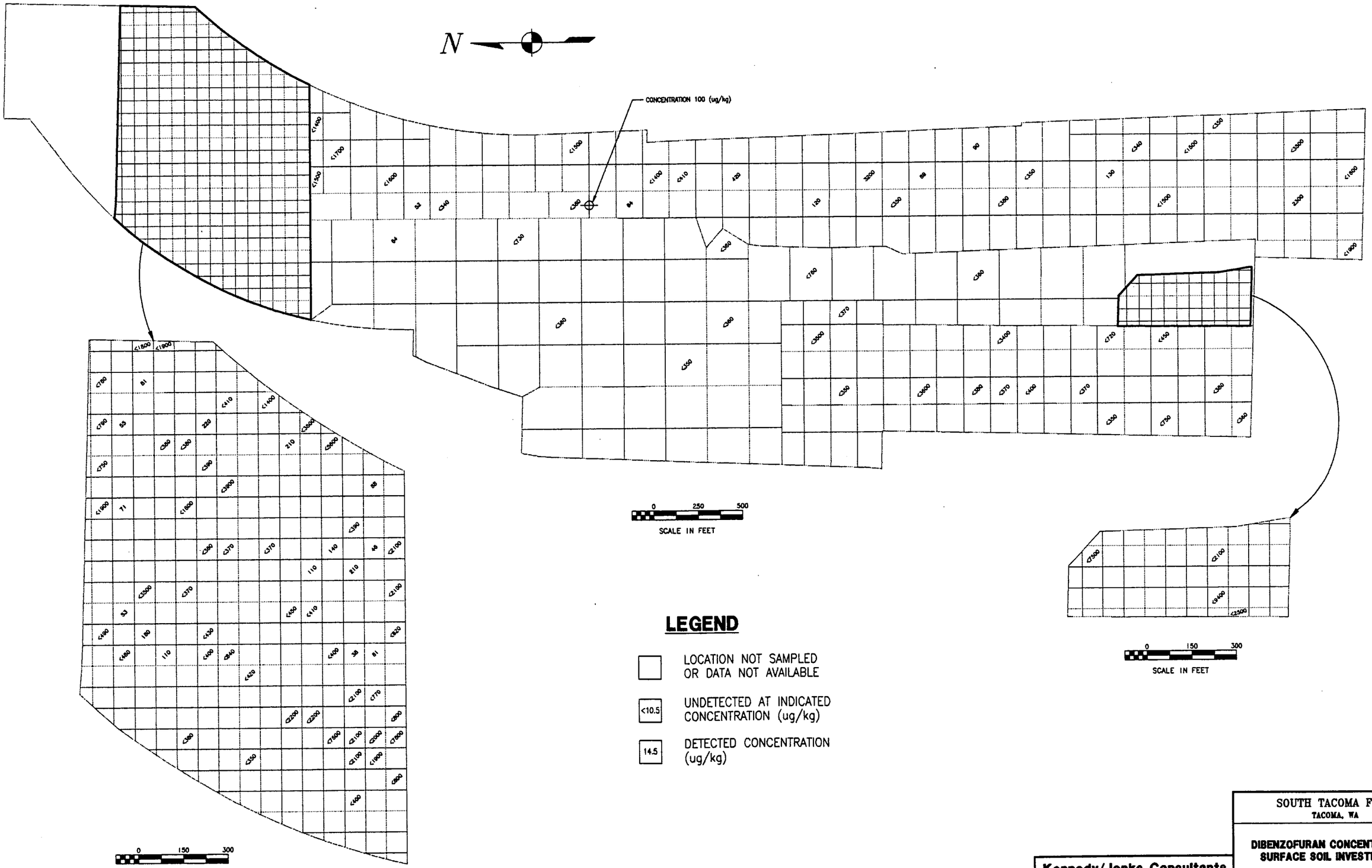
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

DIBENZOFURAN DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK297

FIGURE 42



LEGEND

	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (ug/kg)
14.5	DETECTED CONCENTRATION (ug/kg)

SOUTH TACOMA FIELD
TACOMA, WA

DIBENZOFURAN CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	
P1SK218	916055.02	AS SHOWN	GAL	MJW	MAP 42
			Date 12/20/91		

LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- U2 — UNDETECTED VALUES
- 0 TO <225 ug/kg
- 225 TO <700 ug/kg
- 700 TO <1,400 ug/kg
- ≥ 1,400 ug/kg

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT. RANGES FOR UNDETECTED VALUES ARE:

   U1 – 0 TO <225 ug/kg
   U2 – 225 TO <700 ug/kg
   U3 – 700 TO <1,400 ug/kg
   U4 – ≥ 1,400 ug/kg

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

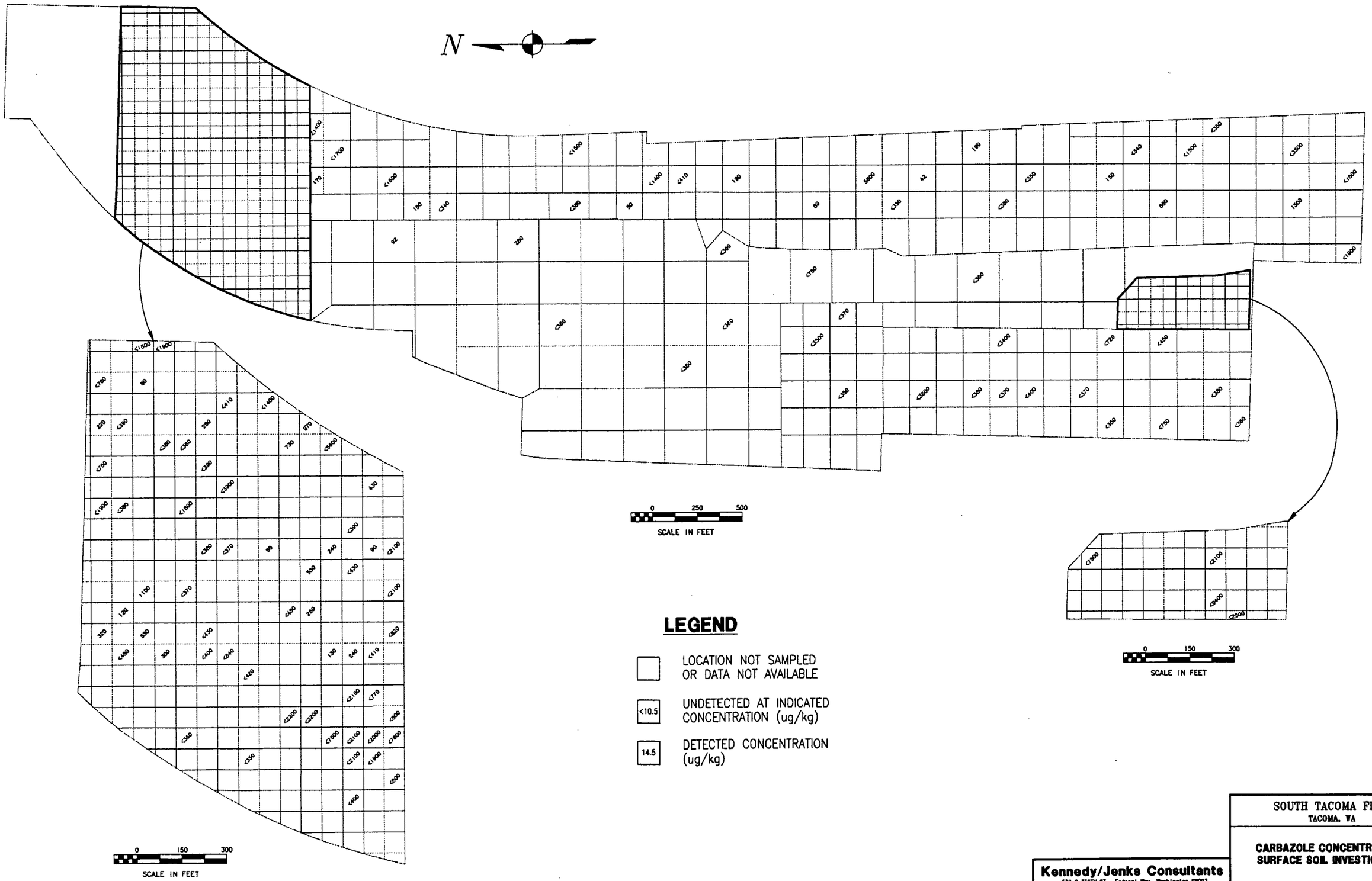
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

CARBAZOLE DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK296

FIGURE 43

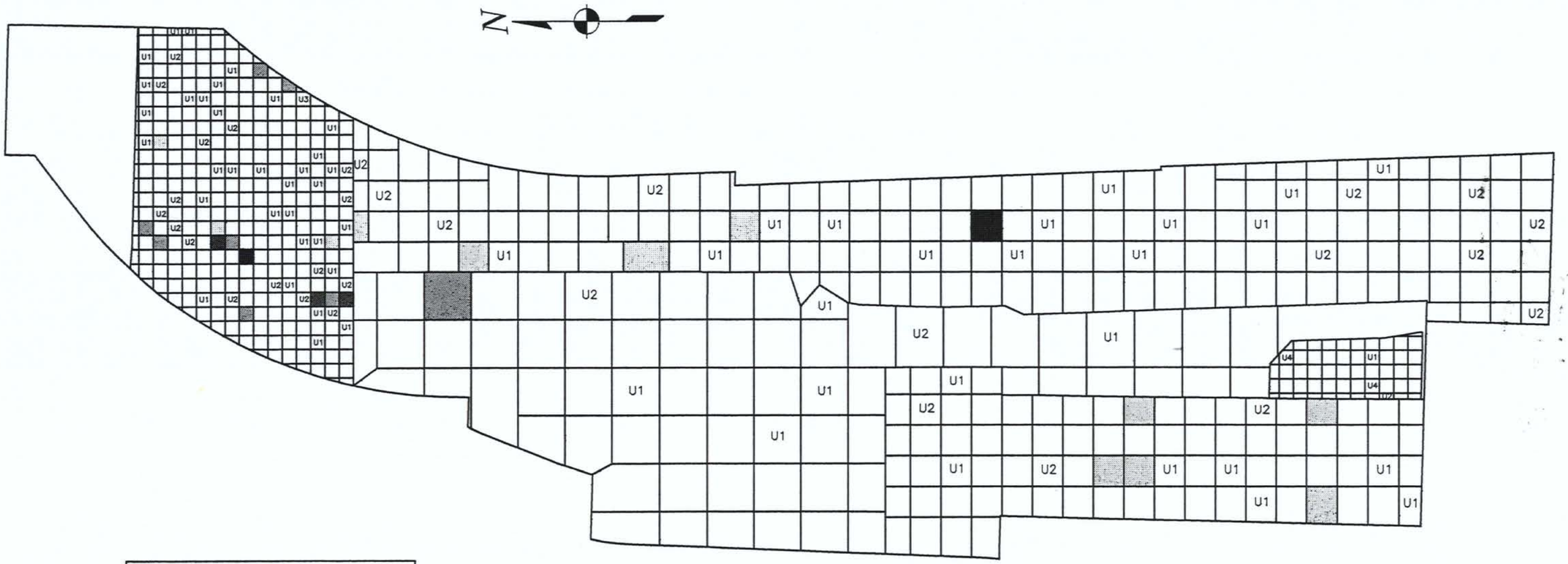


SOUTH TACOMA FIELD
TACOMA, WA

CARBAZOLE CONCENTRATIONS
SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
PISK217	916055.02	AS SHOWN	GAL	MJW	12/20/91	MAP 43



LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- U2 — UNDETECTED VALUES
- 0 TO <350 ug/kg
- 350 TO <2,600 ug/kg
- 2,600 TO <3,200 ug/kg
- ≥ 3,200 ug/kg

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT. RANGES FOR UNDETECTED VALUES ARE:
   - U1 – 0 TO <350 ug/kg
   - U2 – 350 TO <2,600 ug/kg
   - U3 – 2,600 TO <3,200 ug/kg
   - U4 – ≥ 3,200 ug/kg
2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

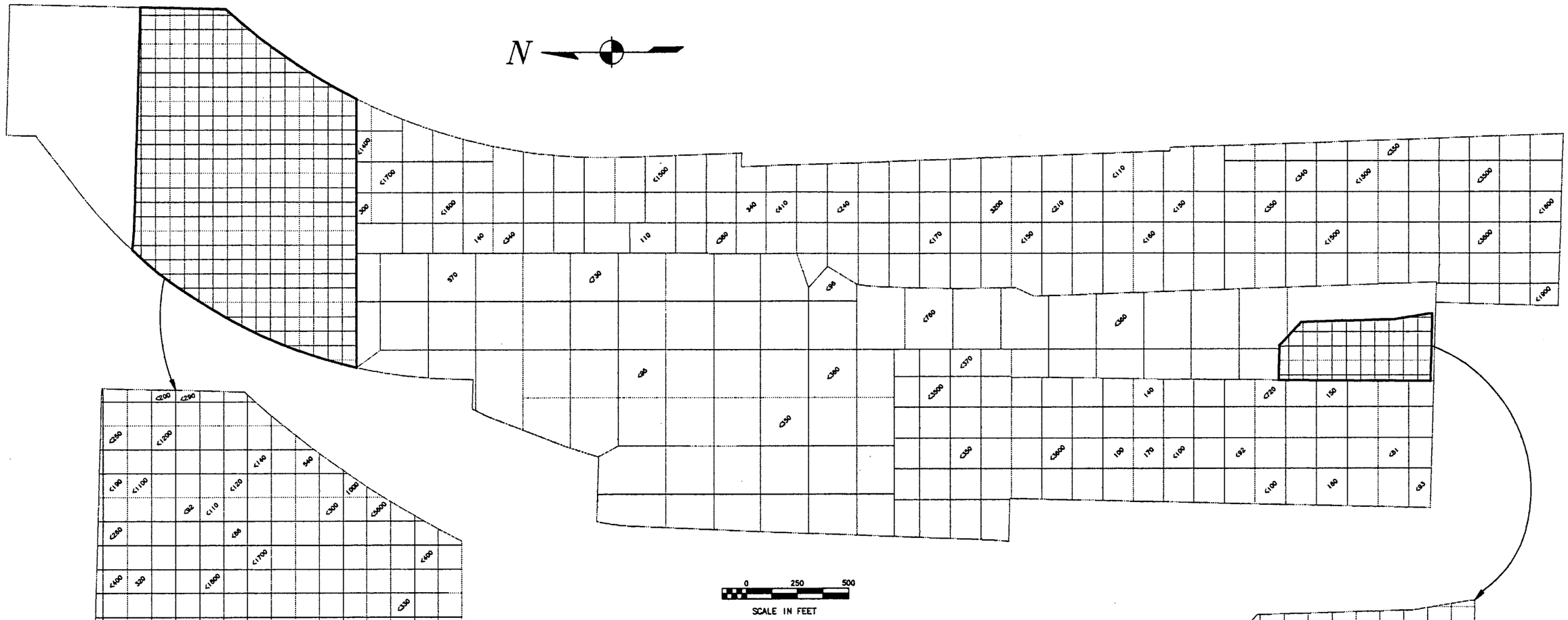
Kennedy/Jenks Consultants

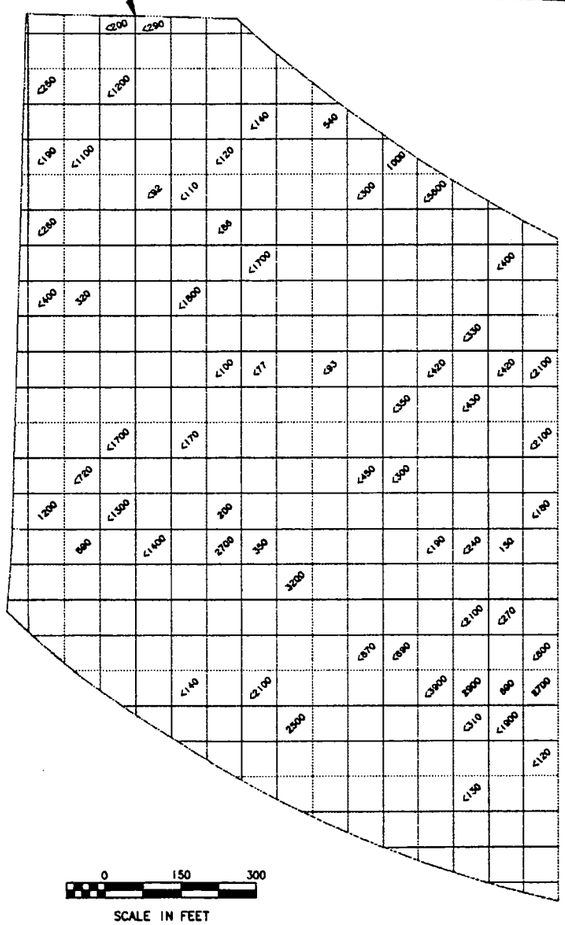
SOUTH TACOMA FIELD
TACOMA, WA

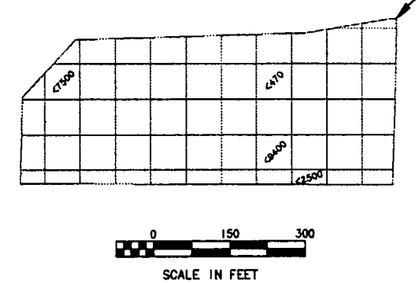
DI-N-BUTYLPHTHALATE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK298

FIGURE 44







LEGEND

	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (ug/kg)
14.5	DETECTED CONCENTRATION (ug/kg)

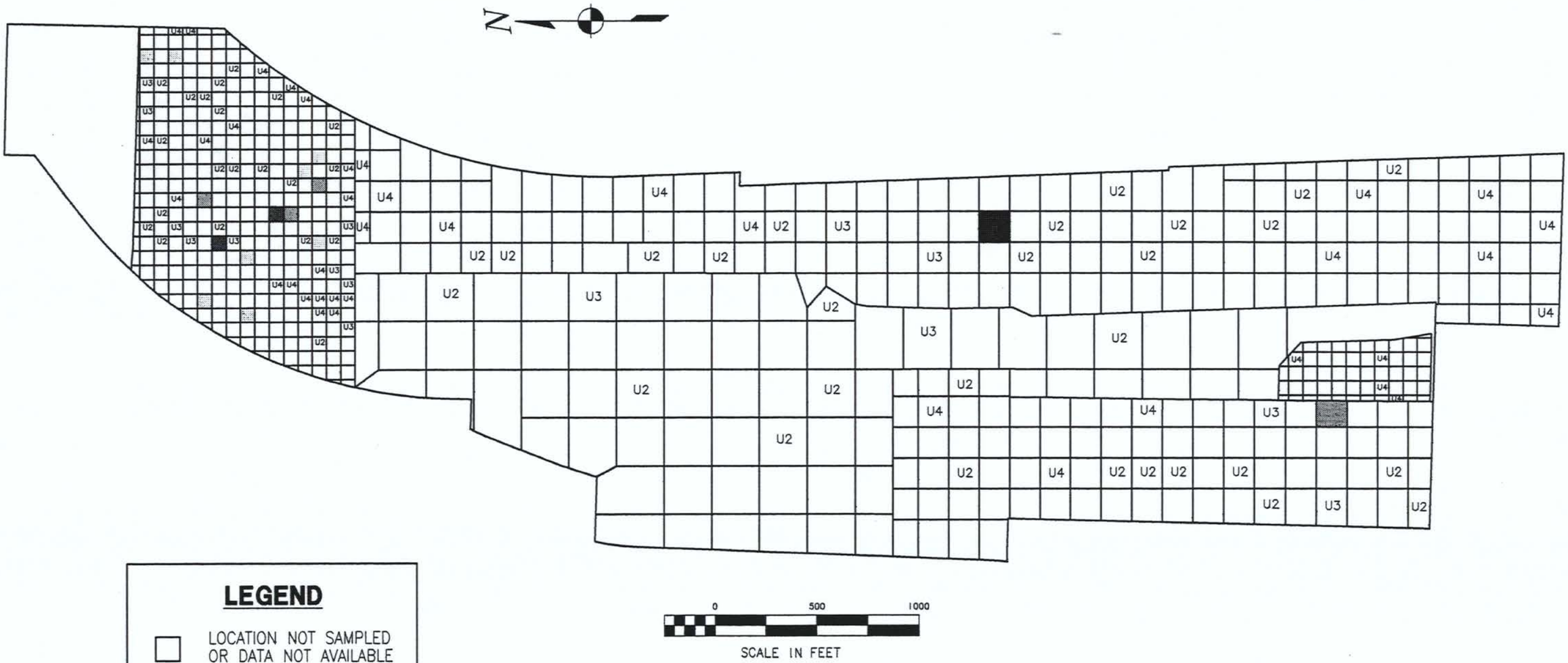
SOUTH TACOMA FIELD
TACOMA, WA

DI-N-BUTYLPHTHALATE CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
630 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date
PISK219	916055.02	AS SHOWN	GAL	MJW	12/20/91

MAP 44



LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- U2 — UNDETECTED VALUES
- 0 TO <100 ug/kg
- 100 TO <280 ug/kg
- 280 TO <600 ug/kg
- ≥ 600 ug/kg

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT. RANGES FOR UNDETECTED VALUES ARE:

   U1 – 0 TO <100 ug/kg
   U2 – 100 TO <280 ug/kg
   U3 – 280 TO <600 ug/kg
   U4 – ≥ 600 ug/kg

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

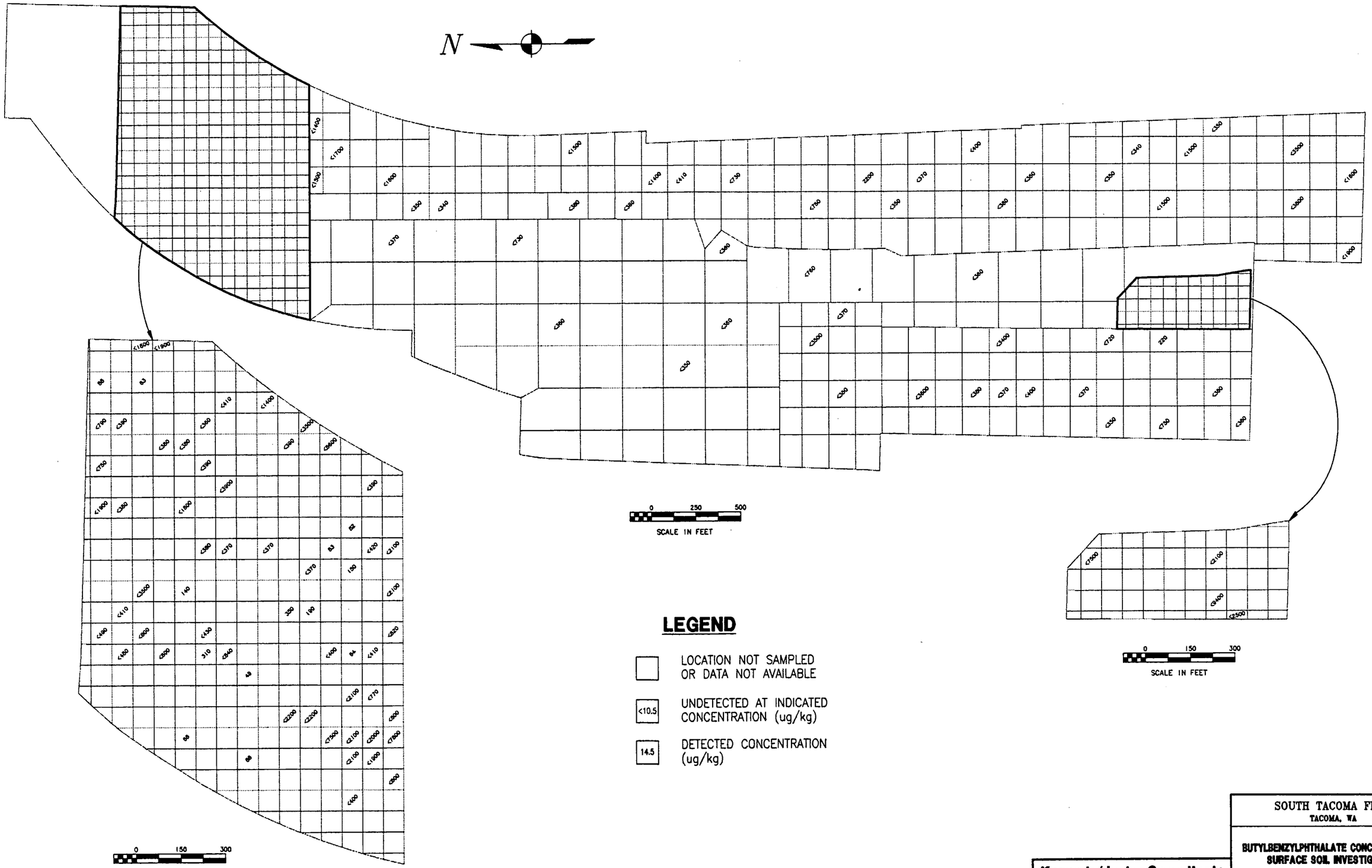
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

BUTYLBENZYLPHTHALATE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK295

FIGURE 45



LEGEND

	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (ug/kg)
14.5	DETECTED CONCENTRATION (ug/kg)

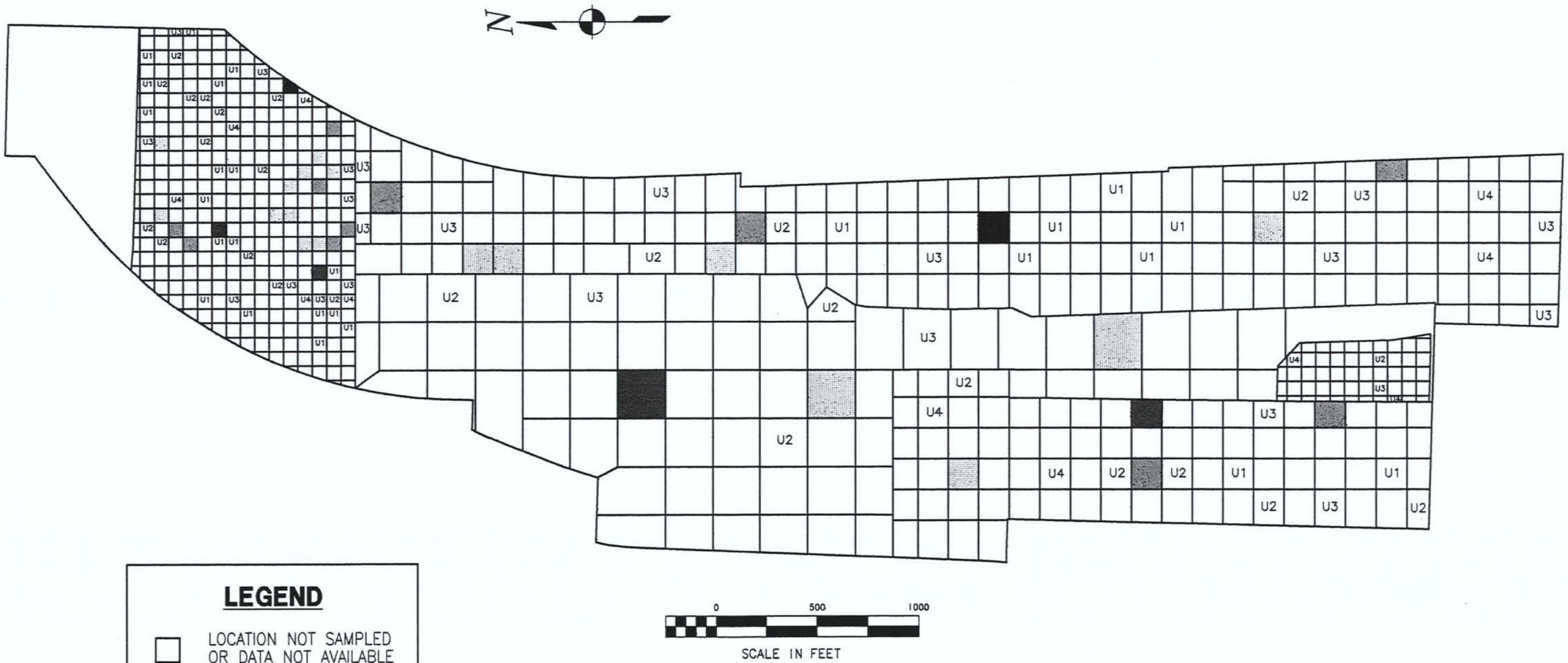
SOUTH TACOMA FIELD
TACOMA, WA

BUTYLBENZYLPHTHALATE CONCENTRATIONS
SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S. 336TH ST Federal Way, Washington 98003
(206) 674-0555

File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK216	916055.02	AS SHOWN	GAL	MJW	12/20/91

MAP 45



LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- U2 — UNDETECTED VALUES
- 0 TO <150 ug/kg
- 150 TO <270 ug/kg
- 270 TO <1,200 ug/kg
- ≥ 1,200 ug/kg

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT. RANGES FOR UNDETECTED VALUES ARE:

   U1 – 0 TO <150 ug/kg
   U2 – 150 TO <270 ug/kg
   U3 – 270 TO <1,200 ug/kg
   U4 – ≥ 1,200 ug/kg

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

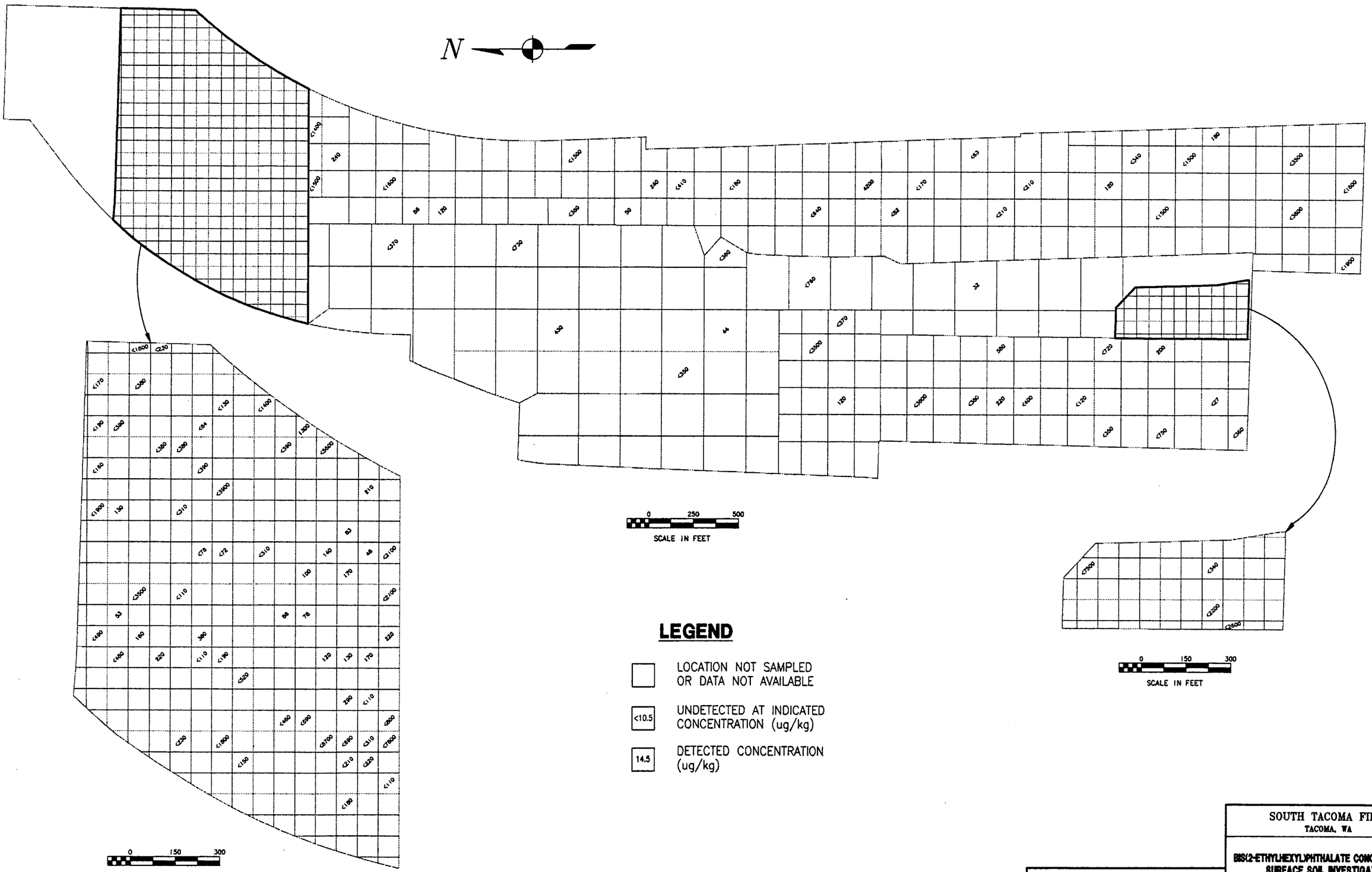
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

BIS(2-ETHYLHEXYL)PHTHALATE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK299

FIGURE 46



LEGEND

	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (ug/kg)
14.5	DETECTED CONCENTRATION (ug/kg)

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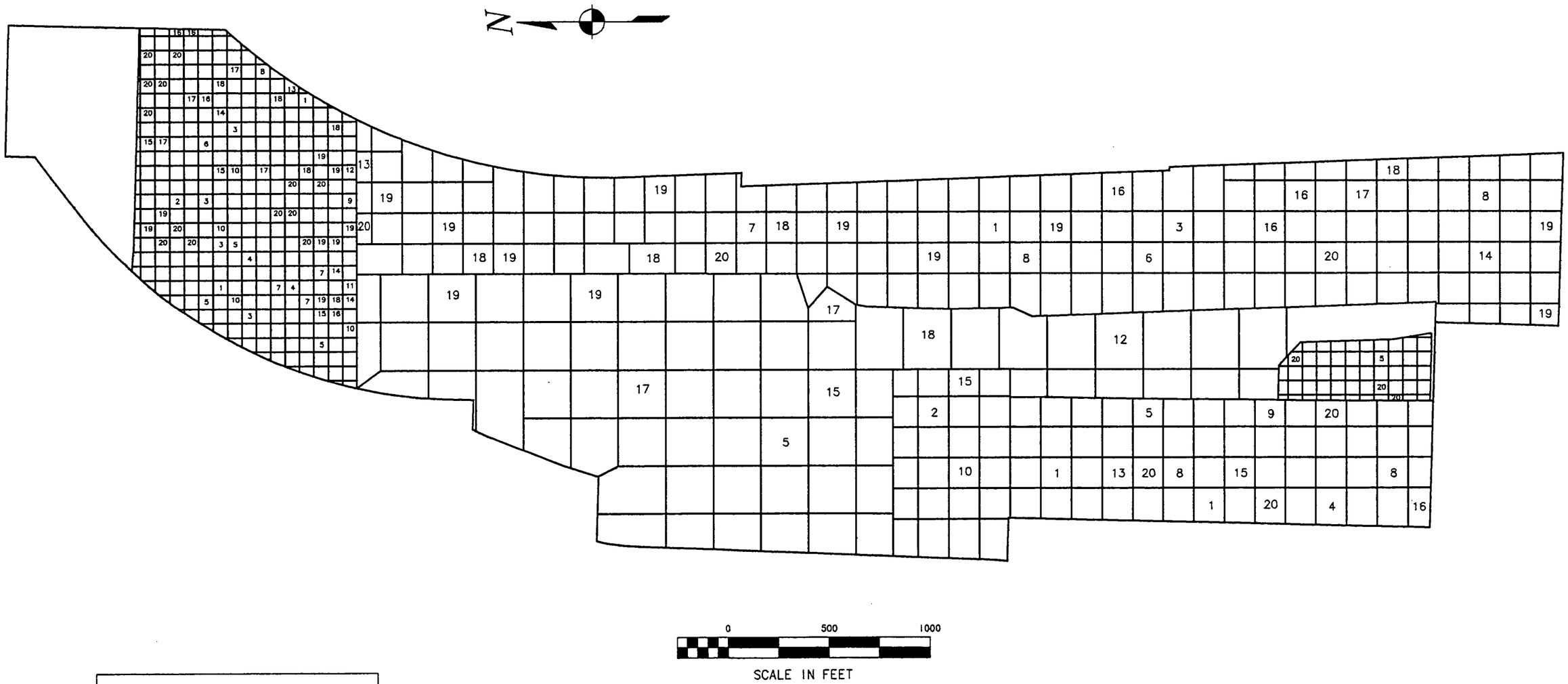
SOUTH TACOMA FIELD
TACOMA, WA

BIS(2-ETHYLHEXYL)PHTHALATE CONCENTRATIONS
SURFACE SOIL INVESTIGATION

File name	Job No.	Scale	Drawn	Chkd.	Date	
PISK220	916055.02	AS SHOWN	GAL	MJW	12/20/91	MAP 46



LEGEND

[2] NUMBER OF TICs DETECTED PER SAMPLING LOCATION

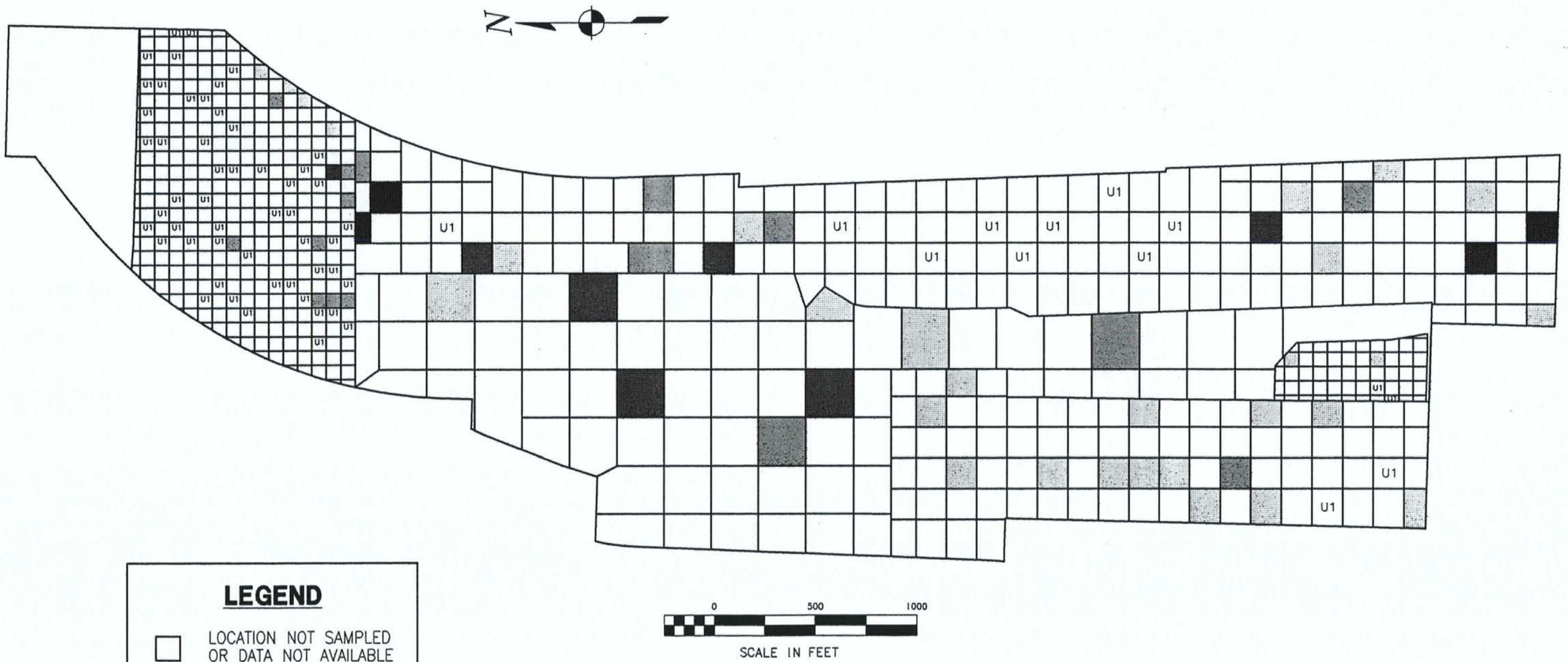
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

SEMIVOLATILE ORGANIC COMPOUND TICs
SURFACE SOIL INVESTIGATION

916055.02/P1SK305

FIGURE 47



LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- U2 UNDETECTED VALUES
- 0 TO <260 ug/kg
- 260 TO <640 ug/kg
- 640 TO <990 ug/kg
- ≥ 990 ug/kg

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT. RANGES FOR UNDETECTED VALUES ARE:

   U1 – 0 TO <260 ug/kg
   U2 – 260 TO <640 ug/kg
   U3 – 640 TO <990 ug/kg
   U4 – ≥ 990 ug/kg

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

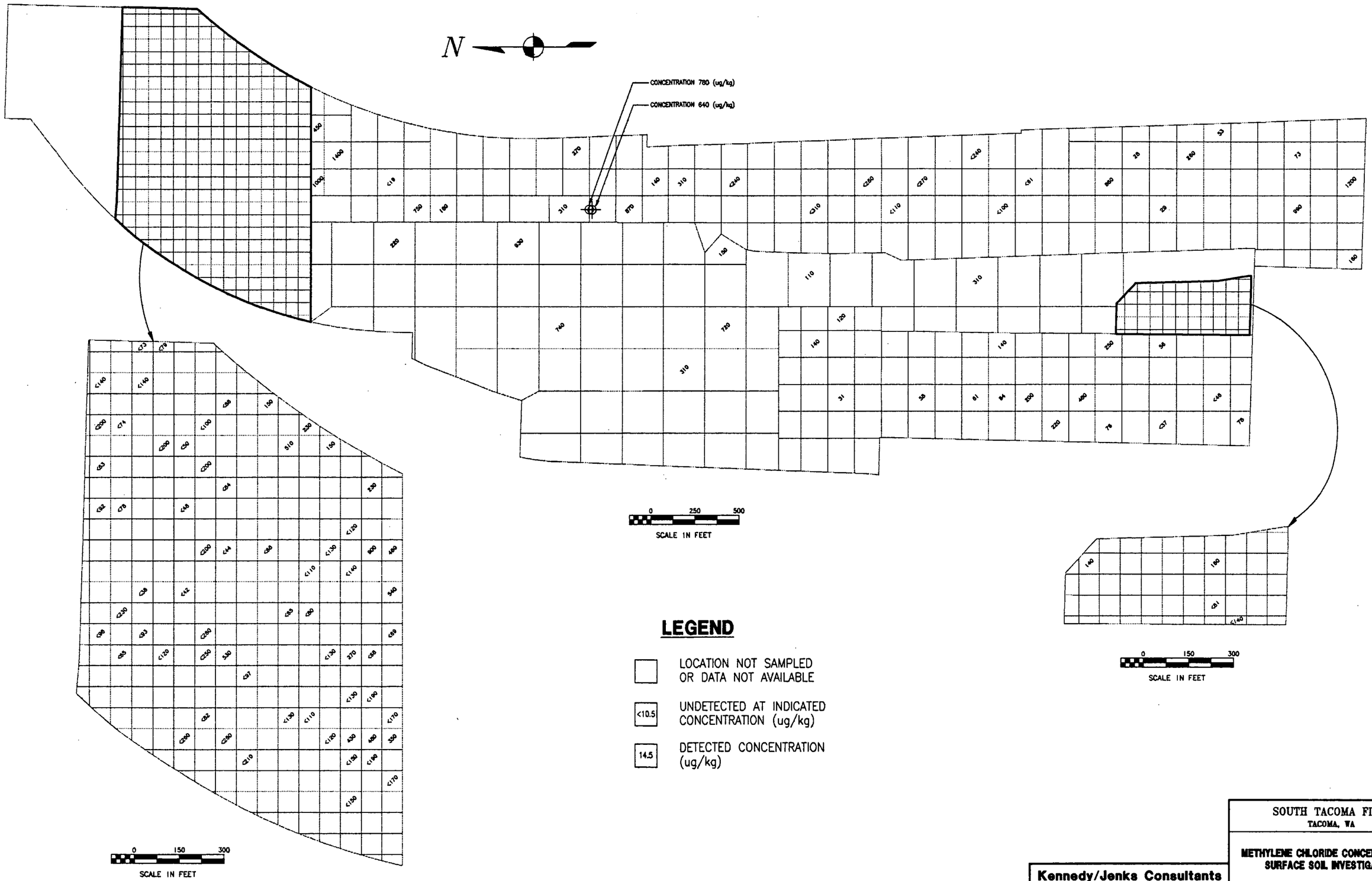
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

METHYLENE CHLORIDE DISTRIBUTION SURFACE SOIL INVESTIGATION

916055.02/P1SK301

FIGURE 48



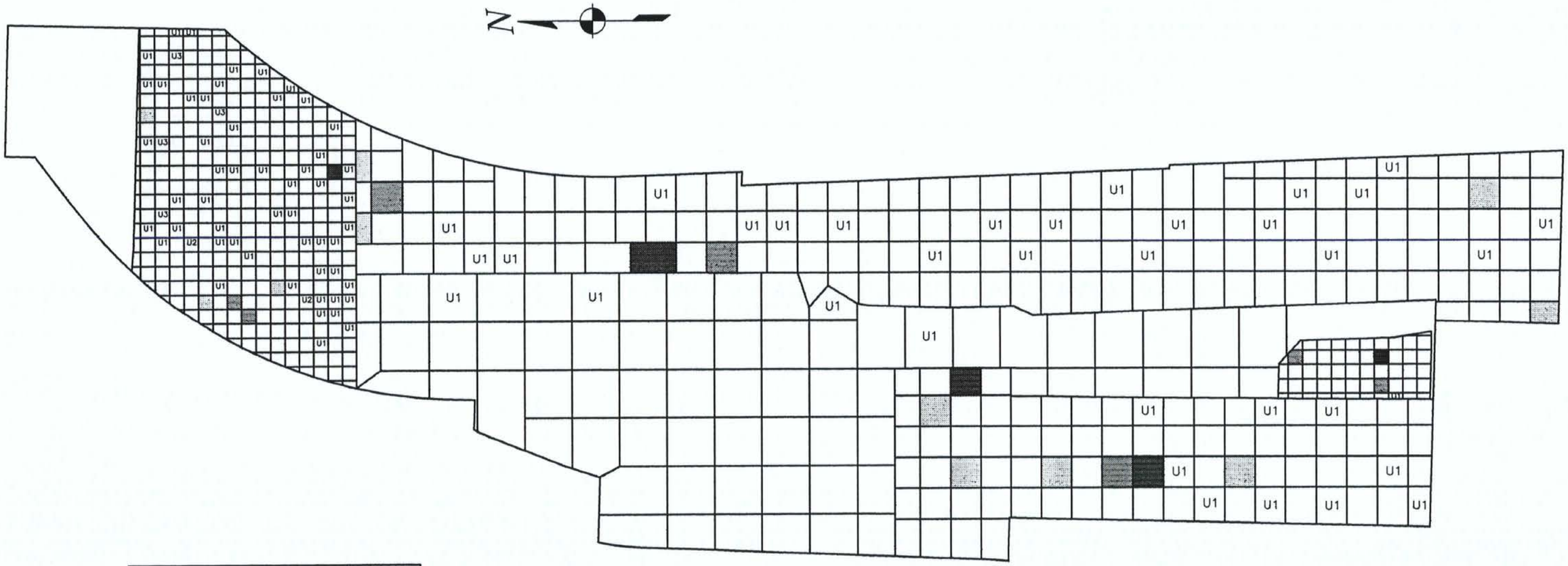
SOUTH TACOMA FIELD
TACOMA, WA

METHYLENE CHLORIDE CONCENTRATIONS
SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date
P1SK222	916055.02	AS SHOWN	GAL	MJW	12/20/91

MAP 47



LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- U2 UNDETECTED VALUES
- 0 TO <17 ug/kg
- 17 TO <24 ug/kg
- 24 TO <50 ug/kg
- ≥ 50 ug/kg

0 500 1000

SCALE IN FEET

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT. RANGES FOR UNDETECTED VALUES ARE:

   U1 – 0 TO <17 ug/kg
   U2 – 17 TO <24 ug/kg
   U3 – 24 TO <50 ug/kg
   U4 – ≥ 50 ug/kg

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

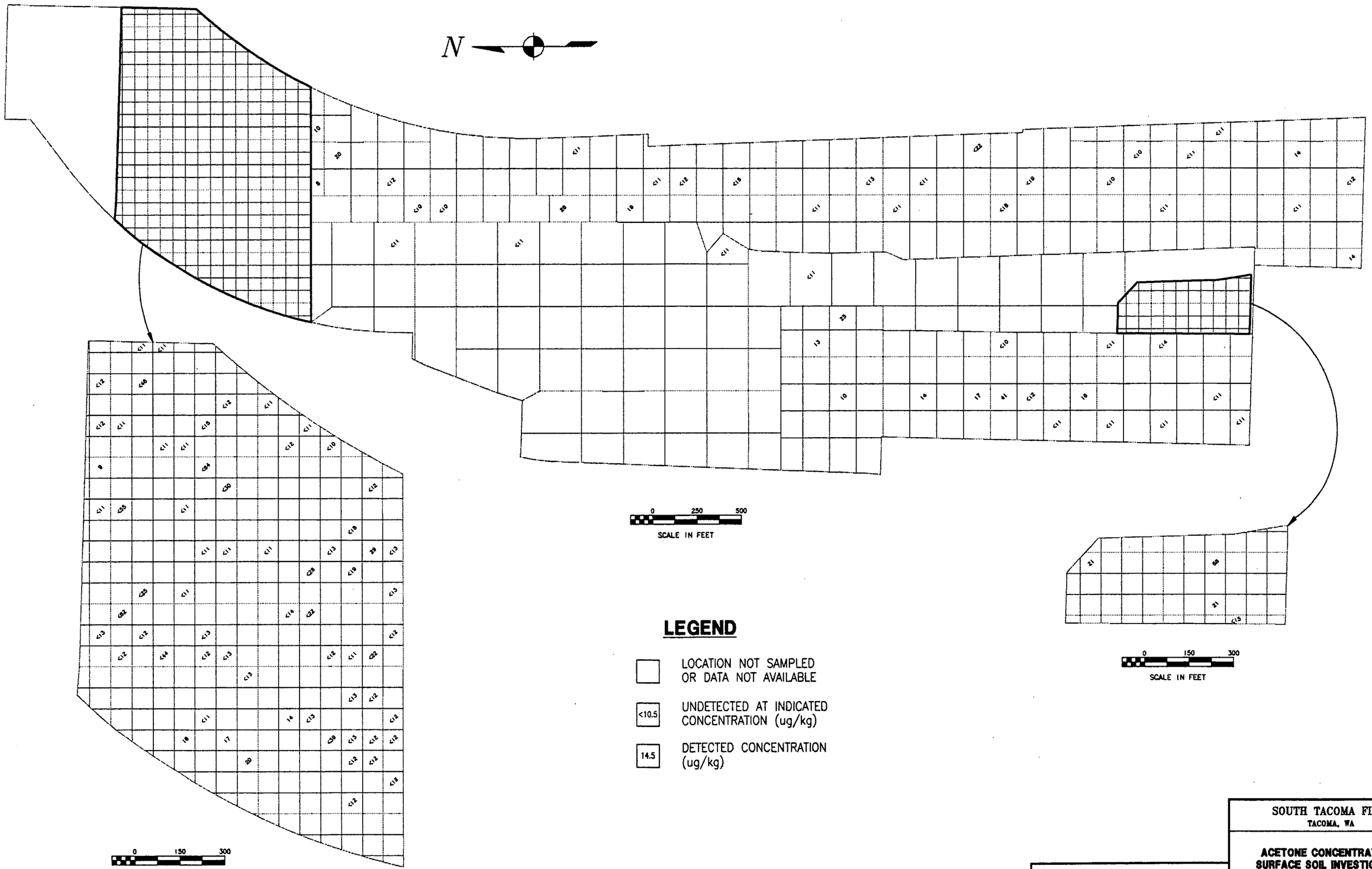
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

ACETONE DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK302

FIGURE 49



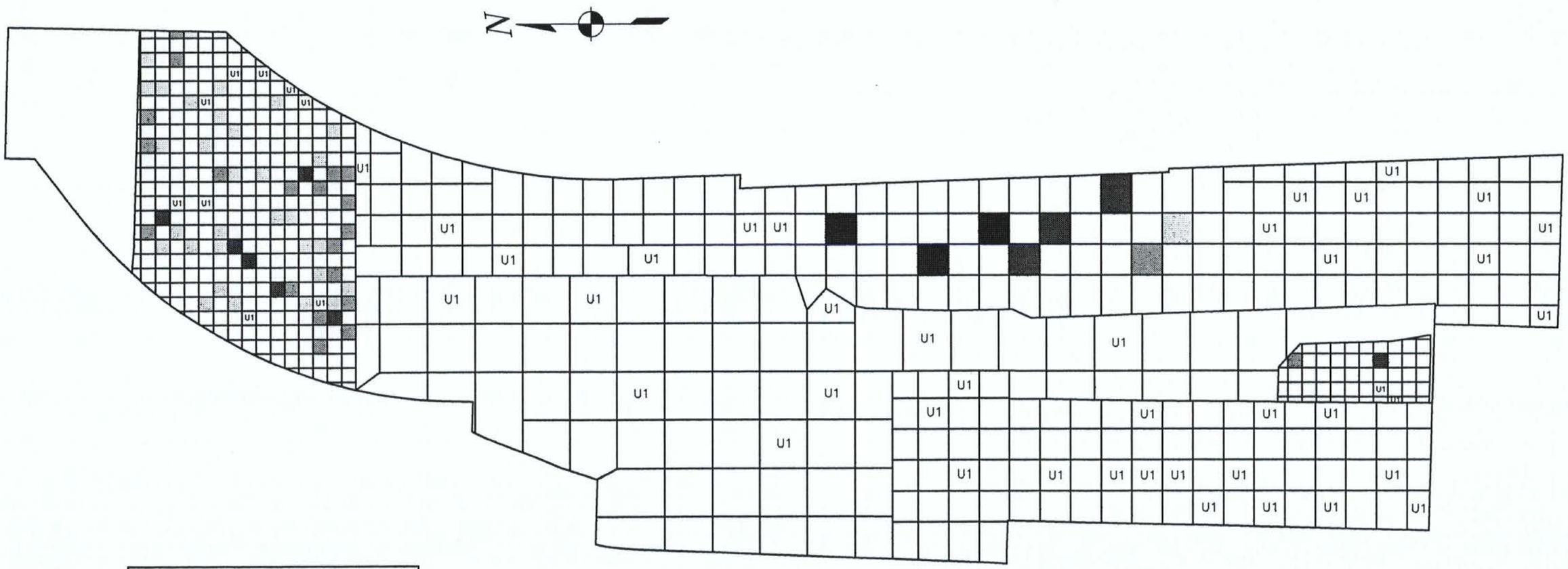
SOUTH TACOMA FIELD
TACOMA, WA

ACETONE CONCENTRATIONS
SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
530 S.336TH ST Federal Way, Washington 98003
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date
PISK223	916055.02	AS SHOWN	GAL	MJW	12/20/91

MAP 48



LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- U2 UNDETECTED VALUES
- 0 TO <22 ug/kg
- 22 TO <44 ug/kg
- 44 TO <140 ug/kg
- ≥ 140 ug/kg

NOTES:

1. U = CONCENTRATION IS BELOW ANALYTICAL DETECTION LIMIT. RANGES FOR UNDETECTED VALUES ARE:

   U1 – 0 TO <22 ug/kg
   U2 – 22 TO <44 ug/kg
   U3 – 44 TO <140 ug/kg
   U4 – ≥ 140 ug/kg

2. THIS CHEMICAL DISTRIBUTION MAP IS AN APPROXIMATE GRAPHICAL REPRESENTATION OF ACTUAL CONDITIONS. THIS PRESENTATION DOES NOT REFLECT RISK TO HUMAN HEALTH OR THE ENVIRONMENT, CLEANUP LEVELS, OR AREAS REQUIRING REMEDIATION.

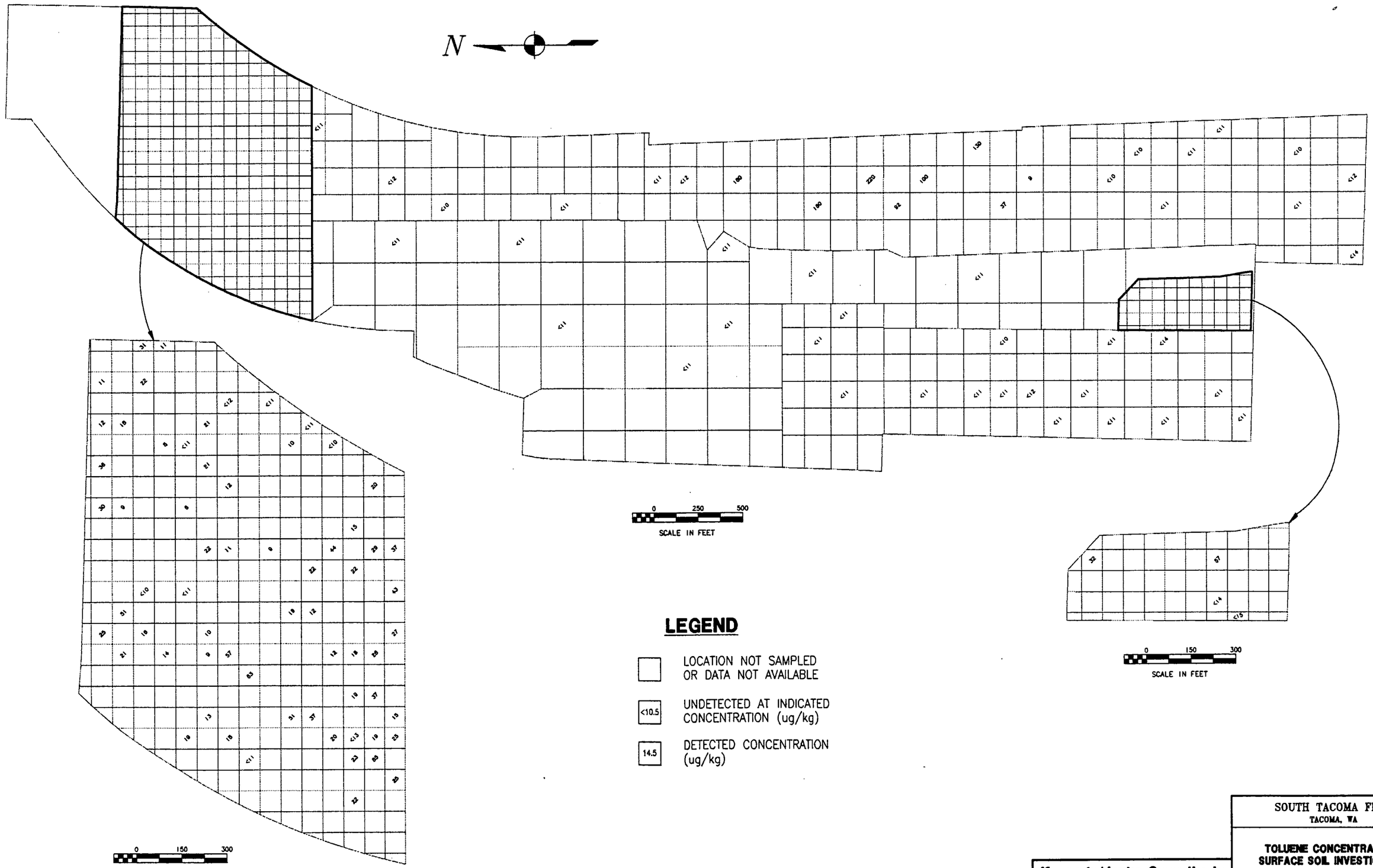
Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

TOLUENE DISTRIBUTION
SURFACE SOIL INVESTIGATION

916055.02/P1SK303

FIGURE 50



LEGEND

	LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
<10.5	UNDETECTED AT INDICATED CONCENTRATION (ug/kg)
14.5	DETECTED CONCENTRATION (ug/kg)

SOUTH TACOMA FIELD
TACOMA, WA

TOLUENE CONCENTRATIONS SURFACE SOIL INVESTIGATION

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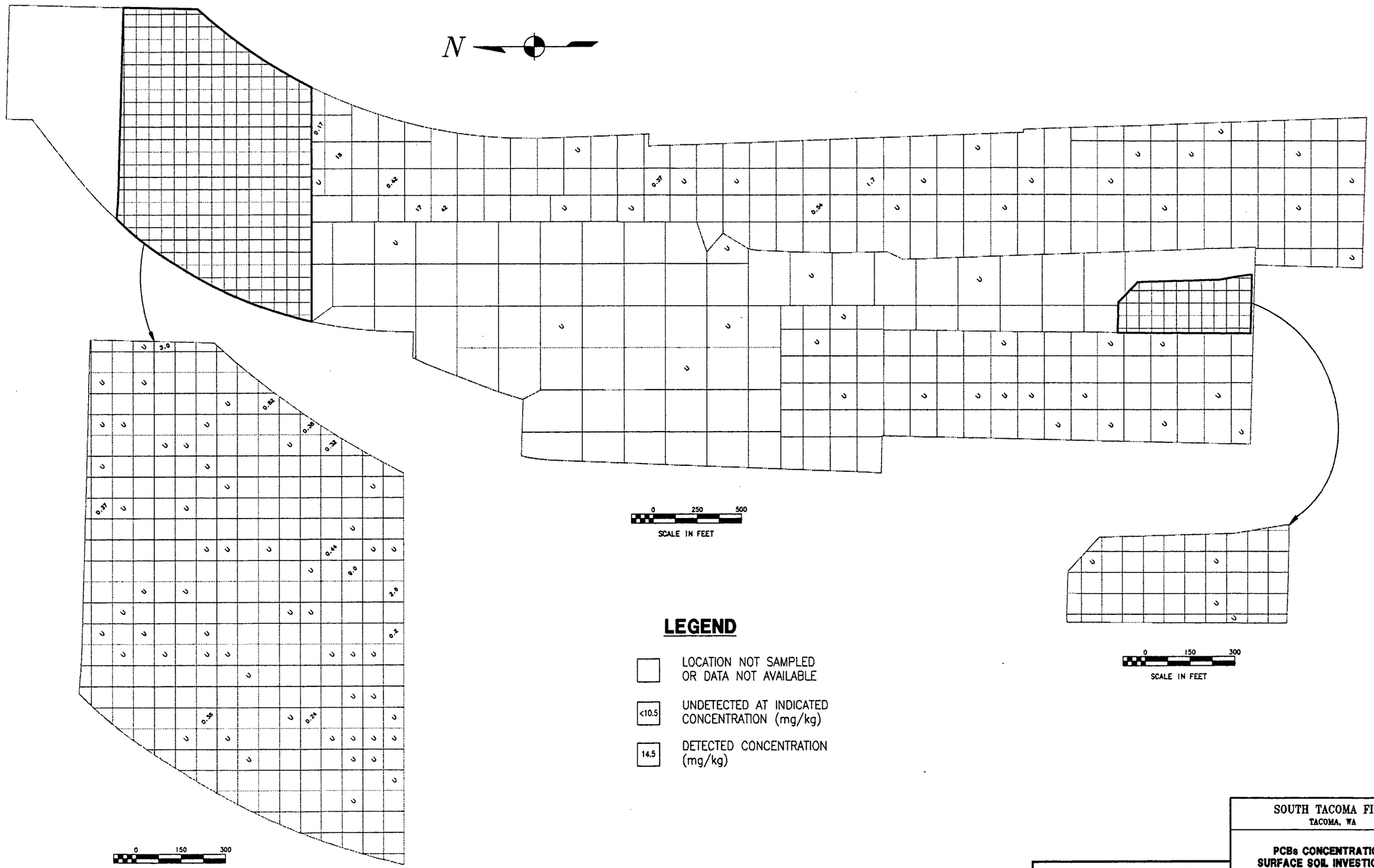
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
PISK224	916055.02	AS SHOWN	GAL	MJW	12/20/91	MAP 49



LEGEND

- LOCATION NOT SAMPLED OR DATA NOT AVAILABLE
- <10.5 — UNDETECTED AT INDICATED CONCENTRATION (mg/kg)
- 14.5 — DETECTED CONCENTRATION (mg/kg)

SOUTH TACOMA FIELD
TACOMA, WA

PCBs CONCENTRATIONS SURFACE SOIL INVESTIGATION

Kennedy/Jenks Consultants
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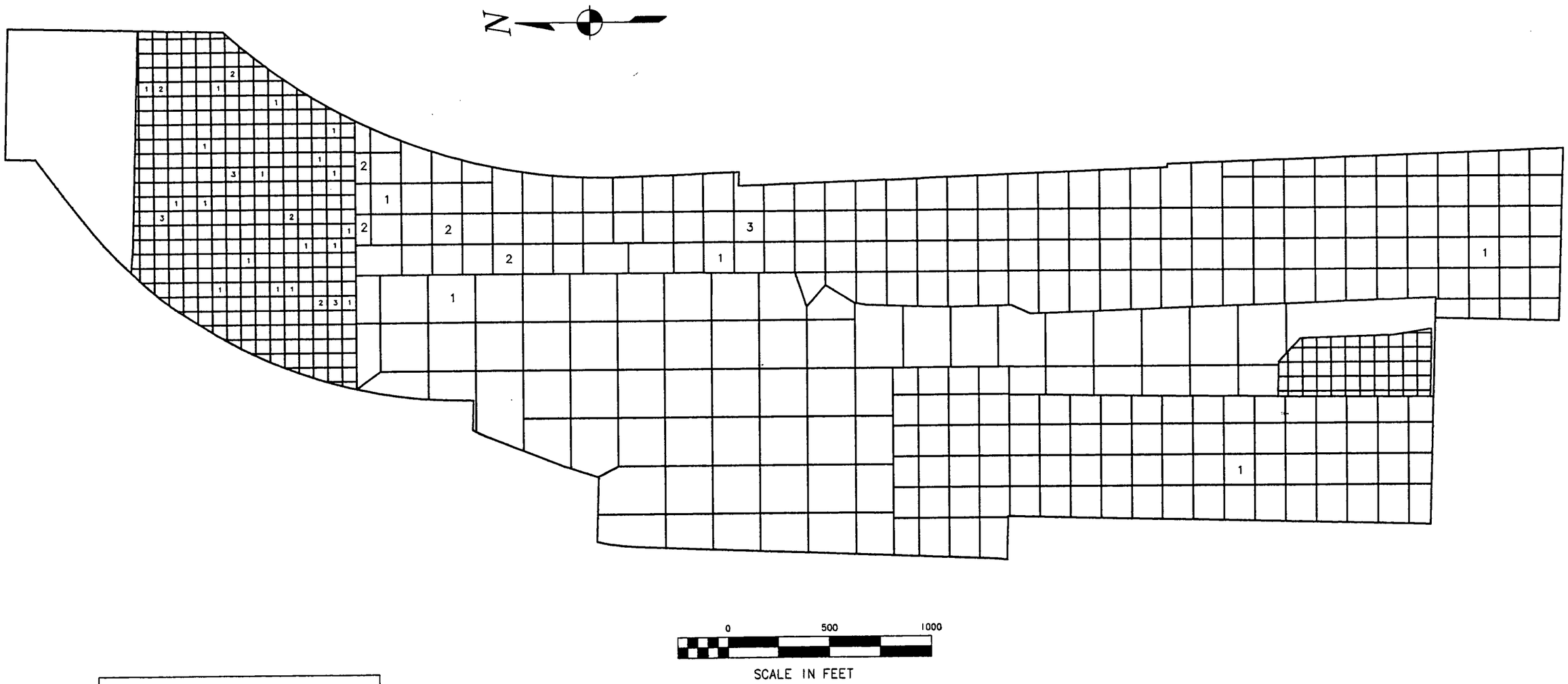
(206) 874-0555

File name	Job No.	Scale	Drawn	Chkd.	Date	
P1SK250	918055.02	AS SHOWN	CAL	MJW	12/20/91	MAP 50



LEGEND

[2] NUMBER OF TICs DETECTED PER SAMPLING LOCATION

Kennedy/Jenks Consultants

SOUTH TACOMA FIELD
TACOMA, WA

VOLATILE ORGANIC COMPOUND TICs
SURFACE SOIL INVESTIGATION

916055.02/P1SK306

FIGURE 51