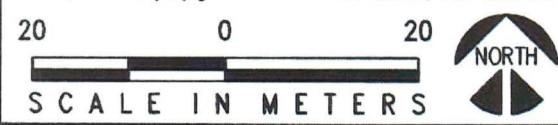


NOTES

SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).
 CIMARRON GAMMA SPEC SOIL COUNTER.
 SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.

LEGEND

12+ URANIUM 1 - 30 pCi/g U -+ URANIUM HIT ROCK, NO SAMPLE
 31+ URANIUM > 30 pCi/g U
 +1 THORIUM < 10 pCi/g Th +- THORIUM HIT ROCK, NO SAMPLE



LEGEND

UNAFECTED AREA (PHASE II)
 AFFECTED AREA (PHASE II)



CIMARRON CORPORATION

CIMARRON FACILITY
 PHASE II - SUB-AREA J
 POST REMEDIATION AFFECTED AREA
 CONFIRMATORY SOIL SAMPLE RESULTS (1997)
 SOIL SAMPLE ALIQUOT: 1'-2'

| REV. | DESCRIPTION | DRWN BY: | CHK'D BY: | APP'D BY: | DATE |
|------|-----------------|----------|-----------|-----------|---------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 |

| | | |
|--------------|-----------------------------|-----------------|
| DRWN. BY: JE | DATE: 7/9/97 | SCALE: AS SHOWN |
| JOB NO. | DRAWING NO. 97POAJSS-CONF-2 | REV. 0 |



NOTES
 SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).
 CIMARRON GAMMA SPEC SOIL COUNTER.
 SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.

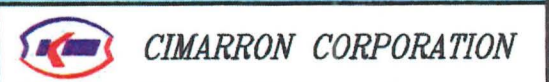
LEGEND

| | | | |
|----------------|---------------------------|----------------|--------------------------------|
| 12+ | URANIUM 1 - 30 pCi/g U | -+ | URANIUM HIT ROCK, NO SAMPLE |
| 31+ | URANIUM > 30 pCi/g U | | |
| + ₁ | THORIUM < 10 pCi/g Th | + ₋ | THORIUM HIT ROCK, NO SAMPLE |



LEGEND

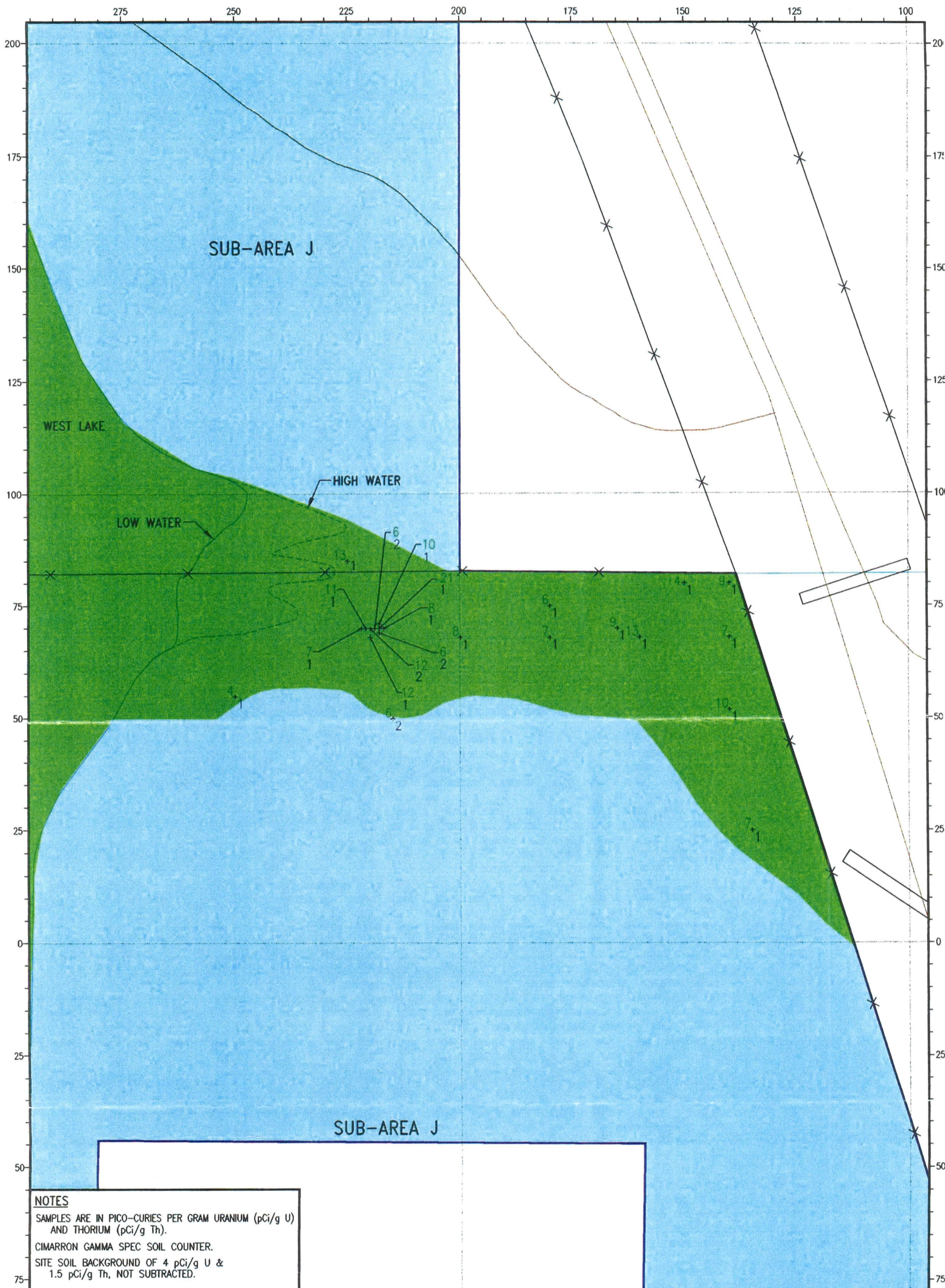
| | |
|--|----------------------------|
| | UNAFFECTED AREA (PHASE II) |
| | AFFECTED AREA (PHASE II) |



**CIMARRON FACILITY
 PHASE II - SUB-AREA J
 POST REMEDIATION AFFECTED AREA
 CONFIRMATORY SOIL SAMPLE RESULTS (1997)
 SOIL SAMPLE ALIQUOT: 2'-3'**

| REV. | DESCRIPTION | DRWN BY: | CK'D BY: | APP'D BY: | DATE |
|------|-----------------|----------|----------|-----------|---------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 |

| | | |
|--------------|-----------------------------|-----------------|
| DRWN. BY: JE | DATE: 7/9/97 | SCALE: AS SHOWN |
| JOB NO. | DRAWING NO. 97POAJSS-CONF-3 | REV. 0 |



NOTES

SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).
 CIMARRON GAMMA SPEC SOIL COUNTER.
 SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.

LEGEND

- | | | | |
|----------------|---------------------------|----------------|--------------------------------|
| 12+ | URANIUM 1 - 30 pCi/g U | - | URANIUM HIT ROCK, NO SAMPLE |
| 31+ | URANIUM > 30 pCi/g U | | |
| + ₁ | THORIUM < 10 pCi/g Th | + ₋ | THORIUM HIT ROCK, NO SAMPLE |

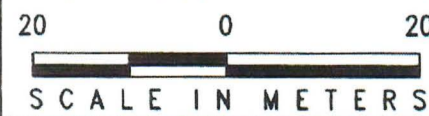
LEGEND

- | | |
|--|----------------------------|
| | UNAFFECTED AREA (PHASE II) |
| | AFFECTED AREA (PHASE II) |



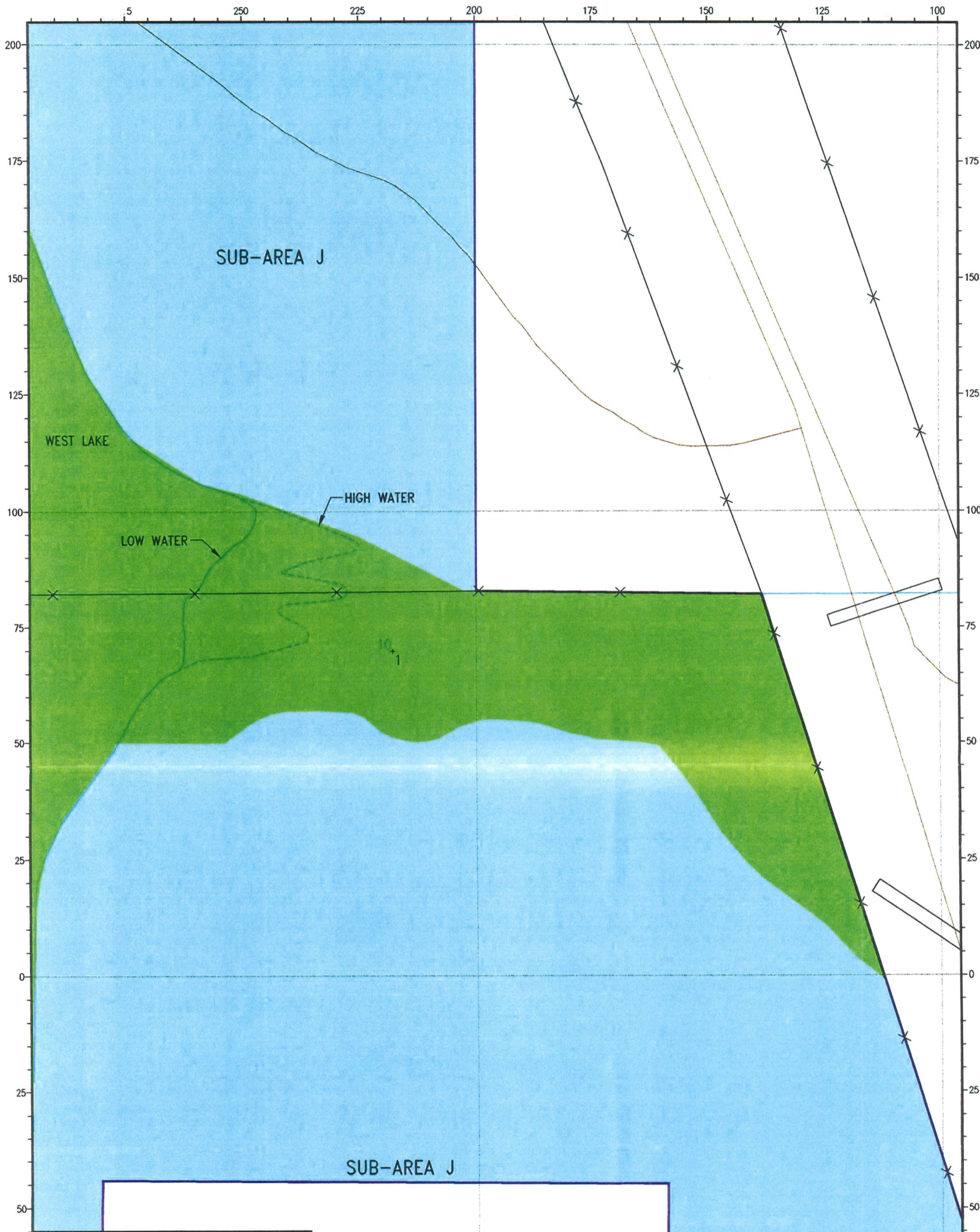
CIMARRON CORPORATION

CIMARRON FACILITY
 PHASE II - SUB-AREA J
 POST REMEDIATION AFFECTED AREA
 CONFIRMATORY SOIL SAMPLE RESULTS (1997)
 SOIL SAMPLE ALIQUOT: 3'-4'



| REV. | DESCRIPTION | DRWN BY: | CHK'D BY: | APP'D BY: | DATE |
|------|-----------------|----------|-----------|-----------|---------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 |

| | | |
|--------------|-----------------------------|-----------------|
| DRWN. BY: JE | DATE: 7/9/97 | SCALE: AS SHOWN |
| JOB NO. | DRAWING NO. 97POAJSS-CONF-4 | REV. 0 |



NOTES
 SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).
 CIMARRON GAMMA SPEC SOIL COUNTER.
 SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.

LEGEND

| | | | | | |
|----------------|---------|----------------|----------------|---------|---------------------|
| 12+ | URANIUM | 1 - 30 pCi/g U | - | URANIUM | HIT ROCK, NO SAMPLE |
| 31+ | URANIUM | > 30 pCi/g U | | | |
| + ₁ | THORIUM | < 10 pCi/g Th | + ₋ | THORIUM | HIT ROCK, NO SAMPLE |



LEGEND

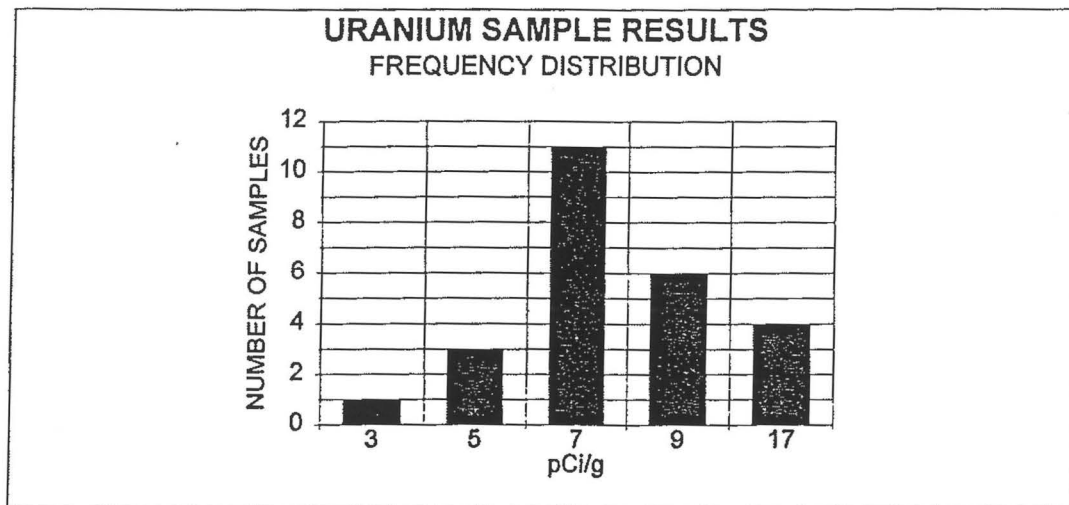
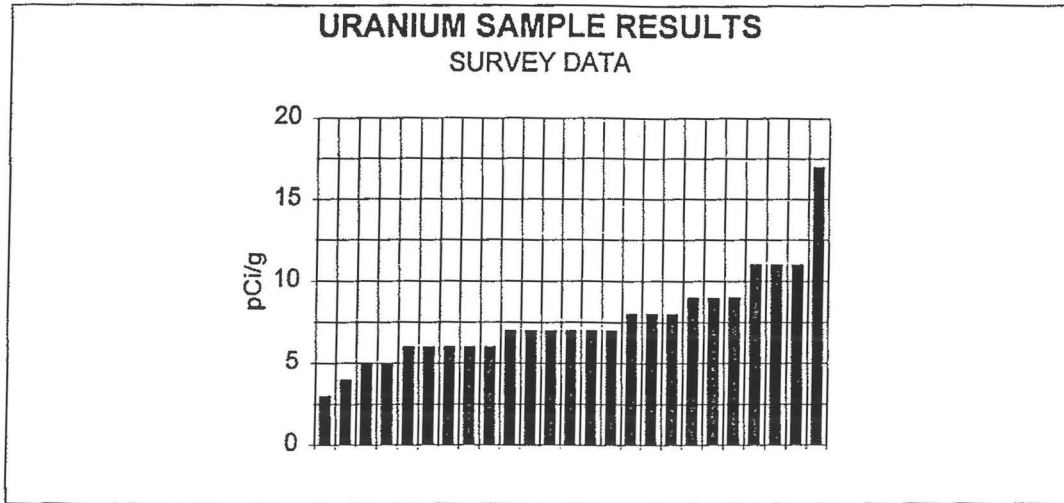
| | |
|--|----------------------------|
| | UNAFFECTED AREA (PHASE II) |
| | AFFECTED AREA (PHASE II) |

CIMARRON CORPORATION

CIMARRON FACILITY
 PHASE II - SUB-AREA J
 POST REMEDIATION AFFECTED AREA
 CONFIRMATORY SOIL SAMPLE RESULTS (1997)
 SOIL SAMPLE ALIQUOT: 4'-5'

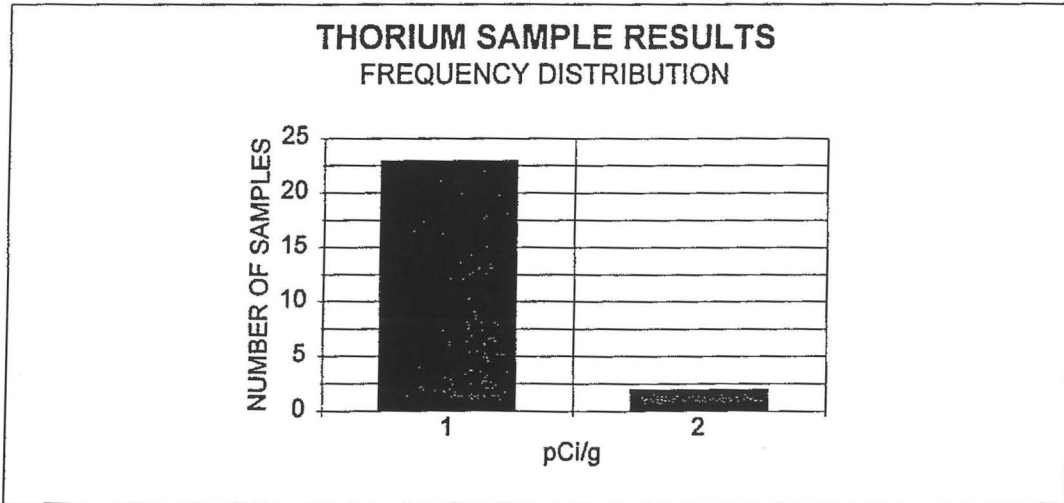
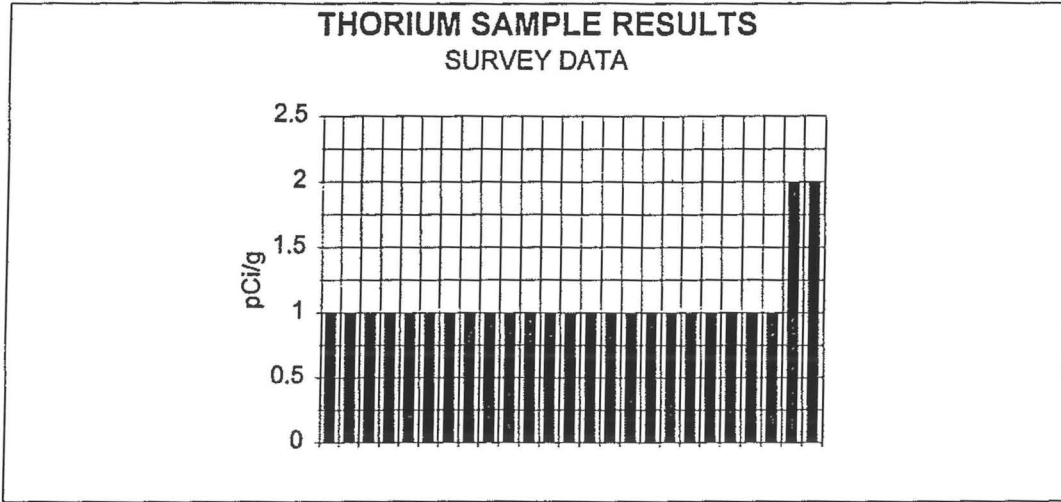
| | | | | | | | | |
|------|-----------------|----------|----------|-----------|---------|----------|-----------------|----------|
| REV. | DESCRIPTION | DRWN BY: | CK'D BY: | APP'D BY: | DATE | DRWN. BY | DATE | SCALE |
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 | JE | 7/9/97 | AS SHOWN |
| | | | | | | JOB NO. | DRAWING NO. | REV. |
| | | | | | | | 97POAJSS-CONF-5 | 0 |

**PHASE II, SUB-AREA "J" - SURFACE
 DRAINAGE WAY
 CIMARRON SOIL COUNTER
 TOTAL URANIUM SAMPLE RESULTS
 SITE BACKGROUND OF 4 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|---------------------------|-----------|
| NUMBER OF SAMPLES | 25 |
| AVERAGE SAMPLE | 8 |
| MINIMUM SAMPLE | 3 |
| MAXIMUM SAMPLE | 17 |
| STANDARD DEVIATION | 3 |

**PHASE II, SUB-AREA "J" - SURFACE
 DRAINAGE WAY
 CIMARRON SOIL COUNTER
 THORIUM (NAT) SAMPLE RESULTS
 SITE BACKGROUND OF 1.5 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|---------------------------|-----------|
| NUMBER OF SAMPLES | 25 |
| AVERAGE SAMPLE | 1 |
| MINIMUM SAMPLE | 1 |
| MAXIMUM SAMPLE | 2 |
| STANDARD DEVIATION | 0 |

CIMARRON CORPORATION
 CIMARRON FACILITY
 PHASE II, SUB-AREA "J", SURFACE
 DRAINAGE WAY

DATE: 02/27/97

| .N # | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | 0-6" Sample | |
|---------|----------------|------------------------|---------------------|------------------------|-------------|----------|
| | | | | | Total-U | Th (Nat) |
| | | | | | 1 | 120W-32N |
| 2 | 125W-30N | *** | *** | *** | 7 | 1 |
| 3 | 130W-35N | *** | *** | *** | 6 | 1 |
| 4 | 135W-35N | *** | *** | *** | 3 | 1 |
| 5 | 140W-40N | *** | *** | *** | 8 | 1 |
| 6 | 145W-43N | *** | *** | *** | 9 | 1 |
| 7 | 150W-46N | *** | *** | *** | 7 | 1 |
| 8 | 155W-52N | *** | *** | *** | 5 | 1 |
| 9 | 160W-55N | *** | *** | *** | 6 | 2 |
| 10 | 165W-62N | *** | *** | *** | 11 | 1 |
| 11 | 170W-60N | *** | *** | *** | 6 | 1 |
| 12 | 175W-59N | *** | *** | *** | 7 | 1 |
| 13 | 180W-60N | *** | *** | *** | 6 | 1 |
| | 185W-66N | *** | *** | *** | 8 | 1 |
| 15 | 190W-68N | *** | *** | *** | 7 | 1 |
| 16 | 195W-71N | *** | *** | *** | 9 | 1 |
| 17 | 200W-74N | *** | *** | *** | 8 | 2 |
| 18 | 205W-78N | *** | *** | *** | 11 | 1 |

*** - Field survey reading NOT taken over standing water. Data collected over standing water would be low and background data would vary from reported values.

INSTRUMENTS:

RESULTS IN:

BACKGROUND MDA

CIMARRON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR

pCi/g

| | | |
|---------|-----|------|
| Total U | 4 | 10 |
| Th(Nat) | 1.5 | 0.25 |

BACKGROUND NOT SUBTRACTED

REVIEWED BY:

W.A. Rogers

DATE: 3-3-97

FILE: AJDSURF

CIMARRON CORPORATION
 CIMARRON FACILITY
 PHASE II, SUB-AREA "J", SURFACE
 DRAINAGE WAY

DATE: 02/27/97

| GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | 0-6" Sample | |
|-------------|------------------|---------------|------------------|-------------|----------|
| | | | | Total-U | Th (Nat) |
| 210W-79N | *** | *** | *** | 9 | 1 |
| 215W-80N | *** | *** | *** | 11 | 1 |
| 225W-81N | *** | *** | *** | 7 | 1 |
| 230W-81N | *** | *** | *** | 17 | 1 |
| 235W-82N | *** | *** | *** | 7 | 1 |
| 240W-83N | *** | *** | *** | 5 | 1 |
| 245W-83N | *** | *** | *** | 4 | 1 |
| | | | | | |
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*** - Field survey reading NOT taken over standing water. Data collected over standing water would be low and background data would vary from reported values.

| INSTRUMENTS: | RESULTS IN: | BACKGROUND | MDA |
|---|-------------|--------------|------|
| GAMMA RAY DETECTOR | pCi/g | Total U 4 | 10 |
| GAMMA SOIL COUNTER 4" X 4" X 16" NaI DETECTOR | pCi/g | Th(Nat) 1.5 | 0.25 |

BACKGROUND NOT SUBTRACTED

REVIEWED BY: W.A. Boyer

DATE: 3-3-97

AJDSURF

CIMARRON CORPORATION - CIMARRON FACILITY

TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" DRAINAGE (DEPTH)

n = pCi/g TOTAL U

| Number | n | (n-N) | (n-N) ² |
|--------|--------|-------|-----------------------|
| 1 | 6 | -3.60 | 12.96 |
| 2 | 7 | -2.60 | 6.76 |
| 3 | 10 | 0.40 | 0.16 |
| 4 | 11 | 1.40 | 1.96 |
| 5 | 14 | 4.40 | 19.36 |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
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| 45 | | | |
| 46 | | | |
| 47 | | | |
| 48 | | | |
| 49 | | | |
| 50 | | | |
| | 48 | | 41.20 |
| | Sum(n) | | Sum(n-N) ² |

No. of Samples (x) :

COUNT TIME: 5 MINUTES

Sample Mean (N) = Sum(n) / (x)

Sample Mean (N) :

Standard Deviation (Sd) = SQRT [(n-N)² / (x - 1)]

Standard Deviation:

2 Std Deviations:

Degree of Freedom(df) = (x) - 1 Data listed on Table B-1

(df) =

Area's Average Level (Aμ) = (N) + (df) x [(Sd)/(x)]

(Aμ) = pCi/gU TOTAL U

GUIDELINE VALUE: pCi/gU TOTAL U

Acceptable Level: pCi/gU TOTAL U

(30 PLUS BACKGROUND)

TABLE B - 1

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | Infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |

For values of Degrees of Freedom not listed:
Interpolate between the listed values.

| | | | |
|--------------------|--------|--|-----|
| (df) high value(Z) | is (B) | | 95% |
| (df) low value(Y) | is (A) | | 95% |

Desired value(df) (X) is calculated as follow:

$EXP[(Ln(B)-Ln(A)) + (Z-Y) / (X-Y) + Ln(A)]$

The (df) value for (X) 95%

PERFORMED BY: *Living Powell*
REVIEWED BY: *W.U. Brown*

DATE: 4-8-97
DATE: 4-8-97

CIMARRON CORPORATION - CIMARRON FACILITY
 TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" DRAINAGE
 (DEPTH)

n = pCi/g Th (NAT)

| Number | n | (n-N) | (n-N) ² |
|--------|--------|-------|-----------------------|
| 1 | 1 | -0.32 | 0.10 |
| 2 | 1 | -0.22 | 0.05 |
| 3 | 1 | -0.22 | 0.05 |
| 4 | 1 | -0.12 | 0.01 |
| 5 | 2 | 0.88 | 0.77 |
| 6 | | | |
| 7 | | | |
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| 47 | | | |
| 48 | | | |
| 49 | | | |
| 50 | | | |
| | 5.6 | | 0.988 |
| | Sum(n) | | Sum(n-N) ² |

No. of Samples (x) : **5**

COUNT TIME: 5 MINUTES

Sample Mean (N) = Sum(n) / (x)

Sample Mean (N) : **1.1**

Standard Deviation (Sd) = SQRT [(n-N)² + (x - 1)]

Standard Deviation: **0.50**

2 Std Deviations: **0.99**

Degree of Freedom(df) = (x) - 1 Data listed on Table B-1

(df) = **2.132**

Area's Average Level (Aμ) = (N) + (df) x [(Sd) / SQRT(x)]

(Aμ) = **1.59** pCi/gTh (NAT)

GUIDELINE VALUE: **10** pCi/gTh (NAT)

Acceptable Level: **4.0** pCi/gTh (NAT)

(25% OF GUIDELINE PLUS BACKGROUND)

TABLE B - 1

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | Infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |

For values of Degrees of Freedom not listed:

Interpolate between the listed values.

| | | | |
|--------------------|--------|--|-----|
| (df) high value(Z) | is (B) | | 95% |
| (df) low value(Y) | is (A) | | 95% |

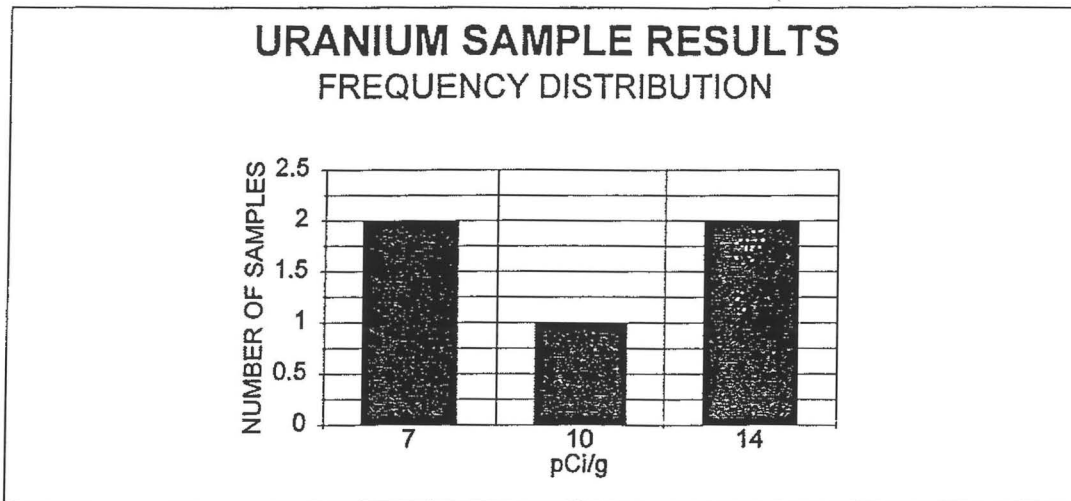
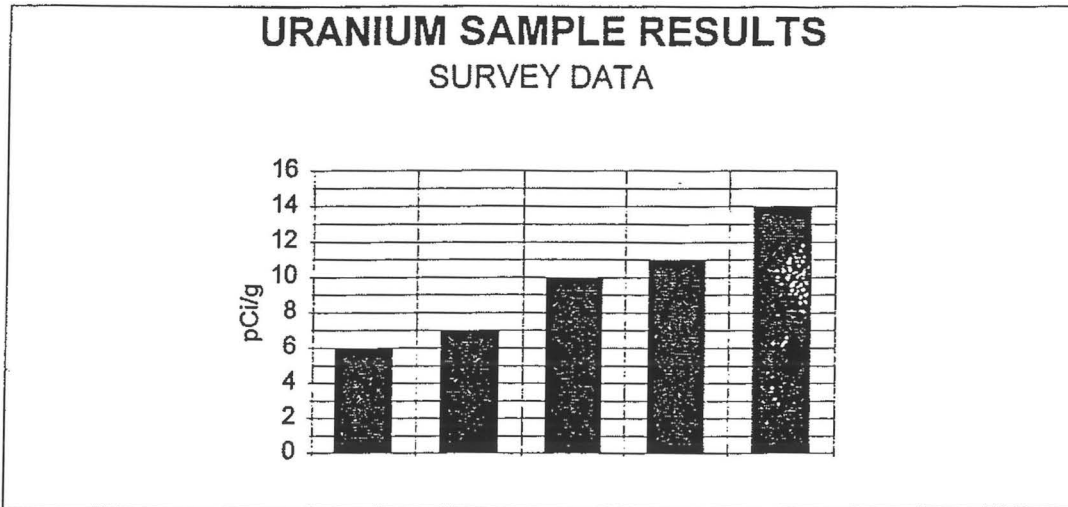
Desired value(df) (X) **4** is calculated as follow:

$$EXP[(Ln(B)-Ln(A)) + (Z-Y) / (X-Y) + Ln(A)]$$

The (df) value for (X) **4** **2.132** **95%**

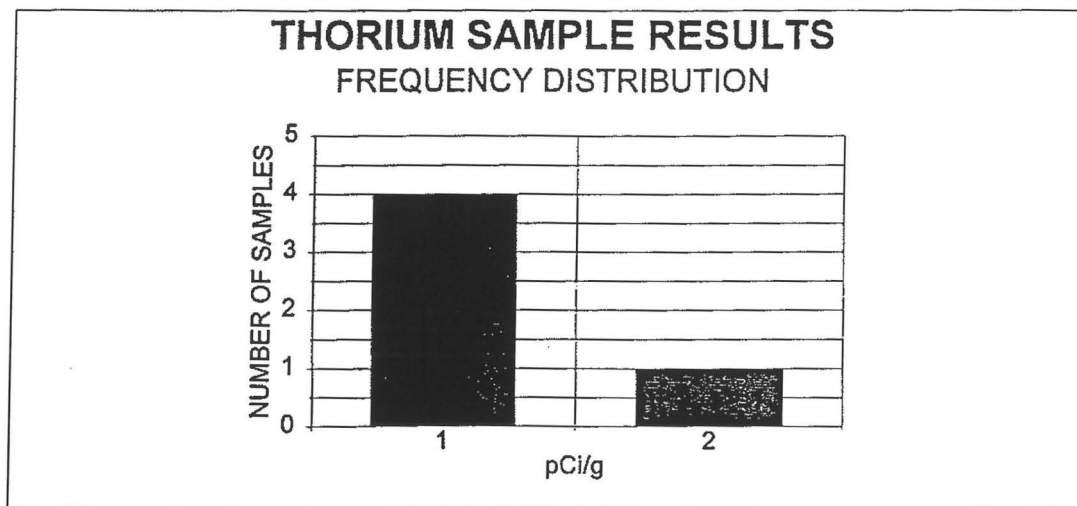
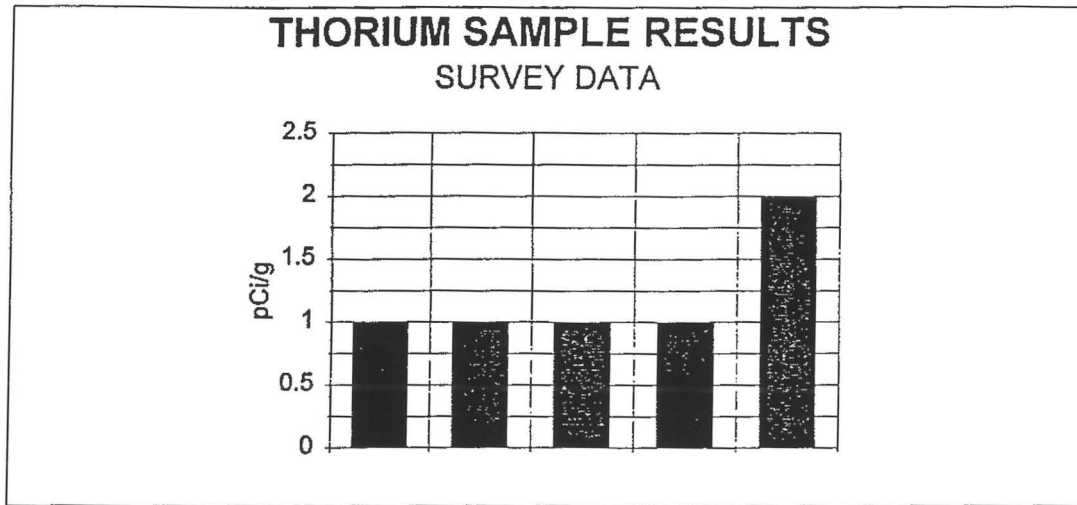
PERFORMED BY: Living Powell DATE: 4-8-97
 REVIEWED BY: w.a. Rozen DATE: 4-8-97

**PHASE II, SUB-AREA "J" - DEPTH
 DRAINAGE WAY
 CIMARRON SOIL COUNTER
 TOTAL URANIUM SAMPLE RESULTS
 SITE BACKGROUND OF 4 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|---------------------------|-----------|
| NUMBER OF SAMPLES | 5 |
| AVERAGE SAMPLE | 10 |
| MINIMUM SAMPLE | 6 |
| MAXIMUM SAMPLE | 14 |
| STANDARD DEVIATION | 3 |

**PHASE II, SUB-AREA "J" - DEPTH
 DRAINAGE WAY
 CIMARRON SOIL COUNTER
 THORIUM (NAT) SAMPLE RESULTS
 SITE BACKGROUND OF 1.5 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|---------------------------|----------|
| NUMBER OF SAMPLES | 5 |
| AVGERAGE SAMPLE | 1 |
| MINIMUM SAMPLE | 1 |
| MAXIMUM SAMPLE | 2 |
| STANDARD DEVIATION | 0 |

CIMARRON FACIL
 PHASE II, SUB-AREA "J", SURFACE
 DRAINAGE WAY

REV.1

SAMPLE LOCATION :
 GRID LOCATION :

DATE: 03/03/97

| LN # | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | pCi/g | | | | | | | | | |
|------|-------------|------------------|---------------|------------------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
| | | | | | 0 - 6" | | 6" - 1' | | 1' - 2' | | 2' - 3' | | 3' - 4' | |
| | | | | | Total-U | Th (Nat) | Total-U | Th (Nat) | Total-U | Th (Nat) | Total-U | Th (Nat) | Total-U | Th (Nat) |
| 1 | 220W-80N | *** | *** | *** | 11 | 1 | 6 | 1 | 14 | 2 | 10 | 1 | 7 | 1 |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
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| 11 | | | | | | | | | | | | | | |
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| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |

INSTRUMENTS:

RESULTS IN

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

pCi/G

Total U 4
 Th (Nat) 1.5

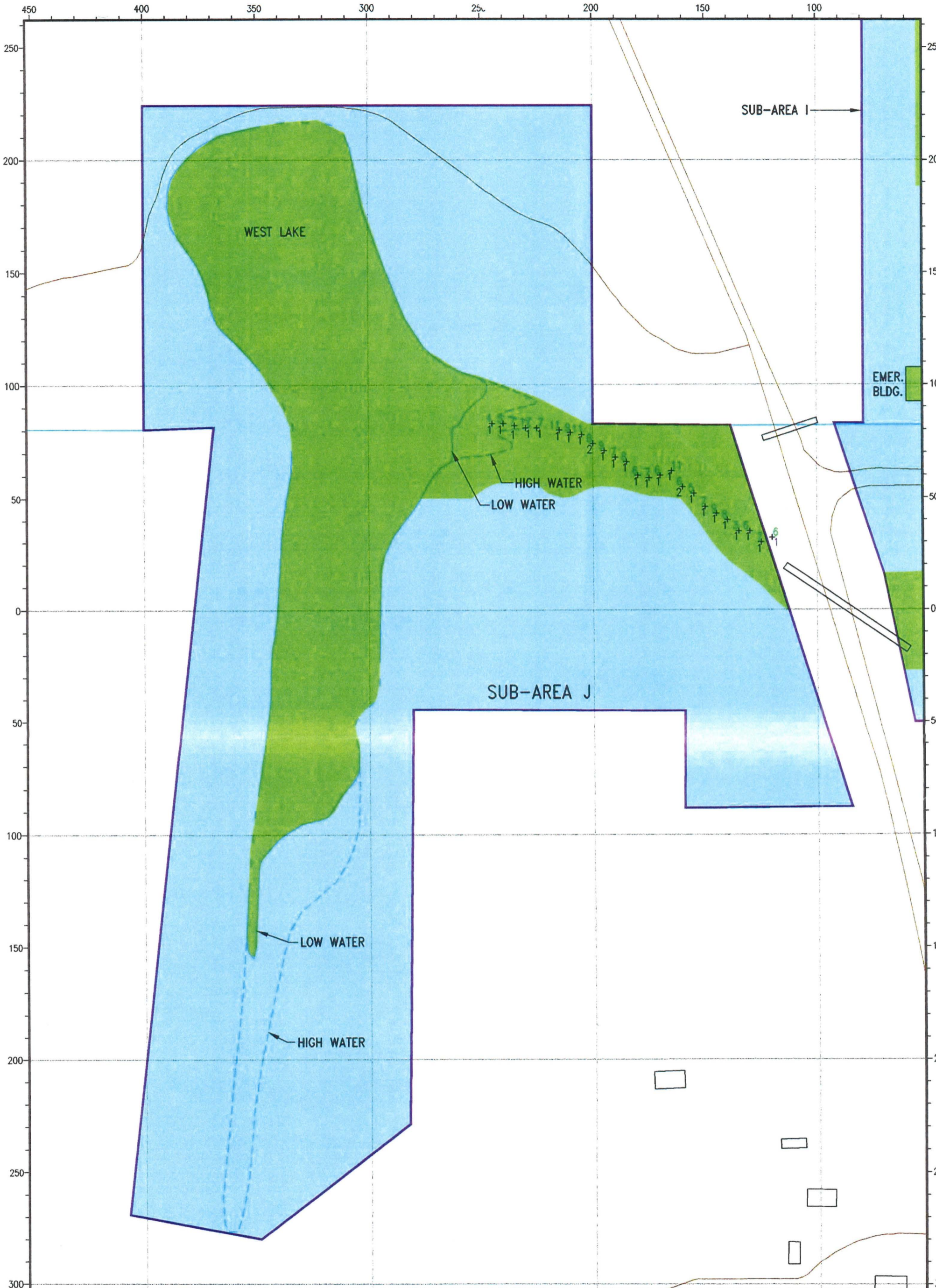
10
 0.25

BACKGROUND NOT SUBTRACTED

REVIEWED BY: W.A. Rogers

DATE: 3-3-97

FILE: AJDDEPTH



NOTES:
 SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).
 CIMARRON GAMMA SPEC SOIL COUNTER.
 SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.

+₂ URANIUM
 +₁ THORIUM

40 0 40
 SCALE IN METERS

NORTH

LEGEND

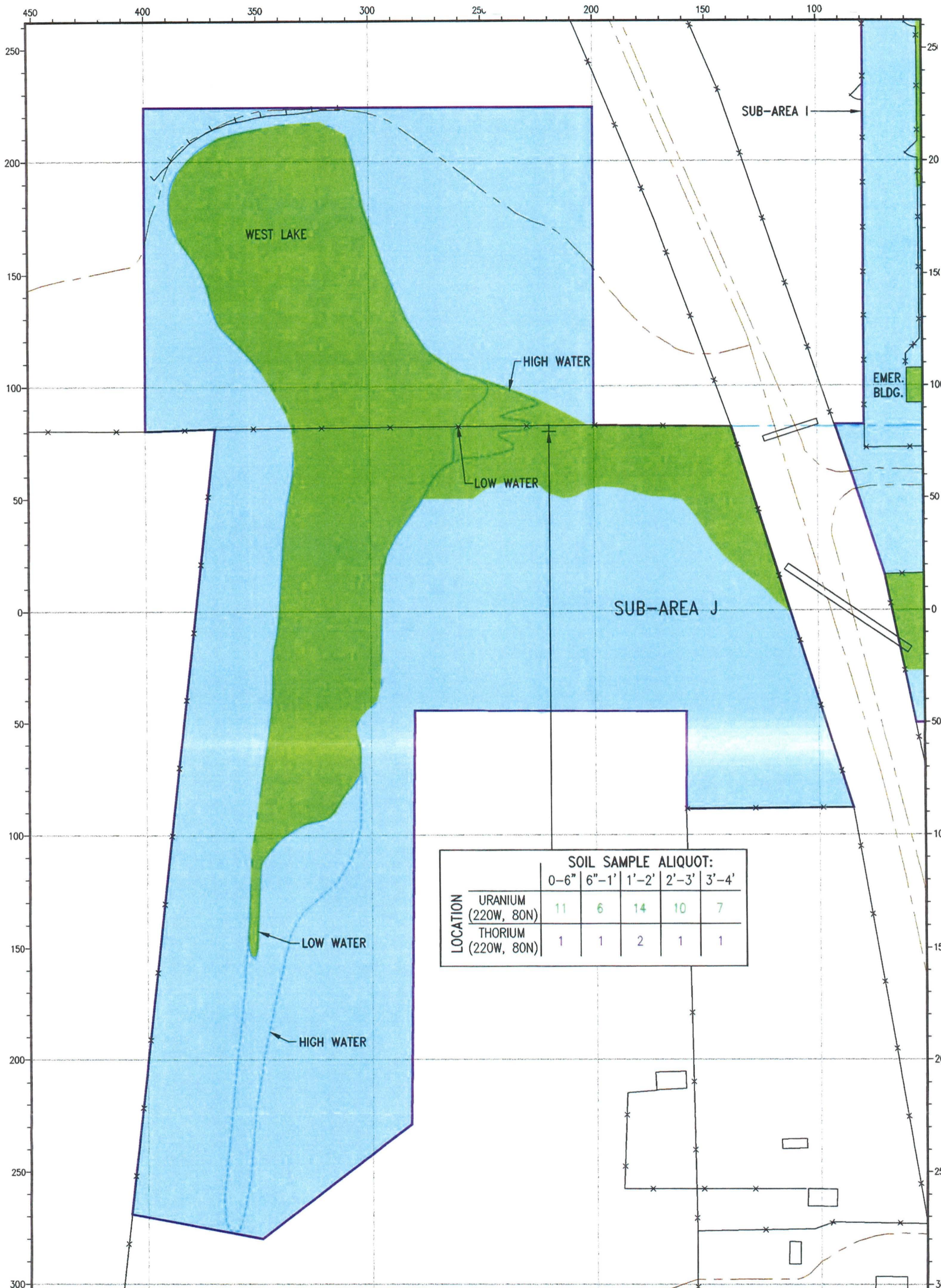
- UNAFFECTED AREA (PHASE II)
- AFFECTED AREA (PHASE II)

| REV. | DESCRIPTION | DRWN BY: | CK'D BY: | APP'D BY: | DATE |
|------|-----------------|----------|----------|-----------|---------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 |

CIMARRON CORPORATION

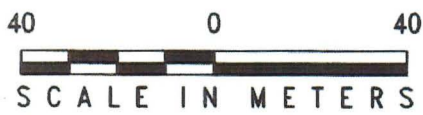
CIMARRON FACILITY
 PHASE II - SUB-AREA J
 POST REMEDIATION DRAINAGE WAY
 SOIL SAMPLE RESULTS (1997)
 SOIL SAMPLE ALIQUOT: 0-6"

| | | |
|--------------|------------------------|-----------------|
| DRWN. BY: JE | DATE: 7/7/97 | SCALE: AS SHOWN |
| JOB NO. | DRAWING NO. 97PODJSS-0 | REV. 0 |



NOTES:

SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).
 CIMARRON GAMMA SPEC SOIL COUNTER.
 SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.



LEGEND

- UNAFFECTED AREA (PHASE II)
- AFFECTED AREA (PHASE II)



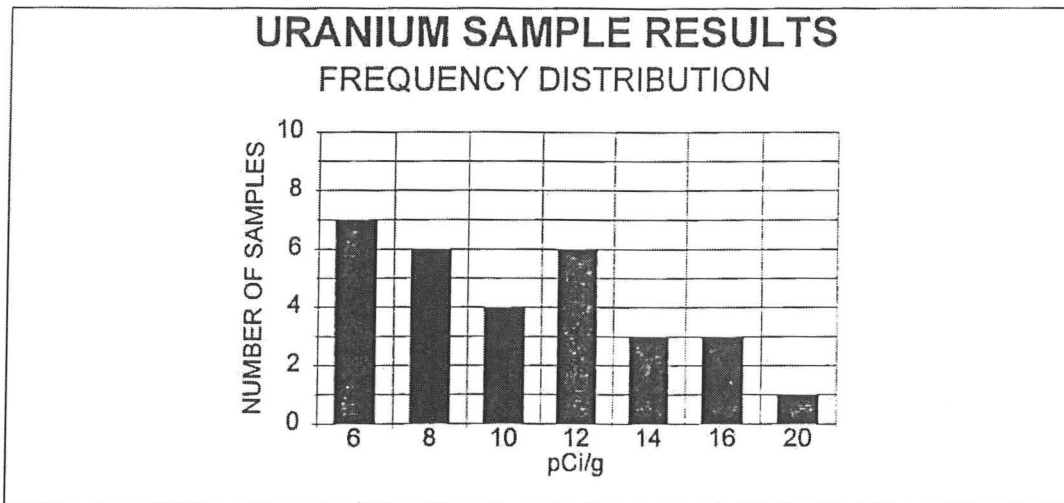
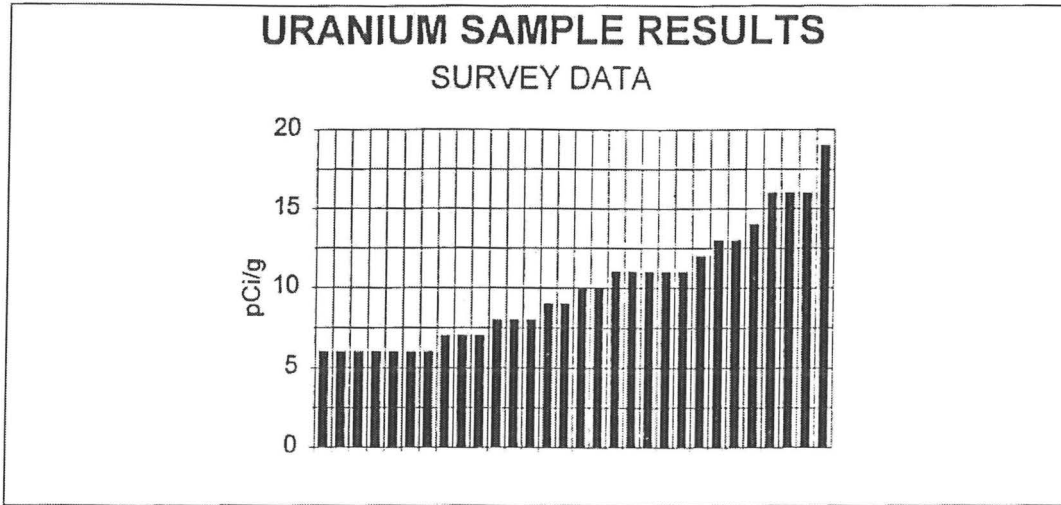
CIMARRON CORPORATION

**CIMARRON FACILITY
 PHASE II - SUB-AREA J
 POST REMEDIATION DRAINAGE WAY
 CONFIRMATORY SOIL SAMPLE RESULTS (1997)**

| REV. | DESCRIPTION | DRWN BY: | CHK'D BY: | APP'D BY: | DATE |
|------|-----------------|----------|-----------|-----------|---------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 |

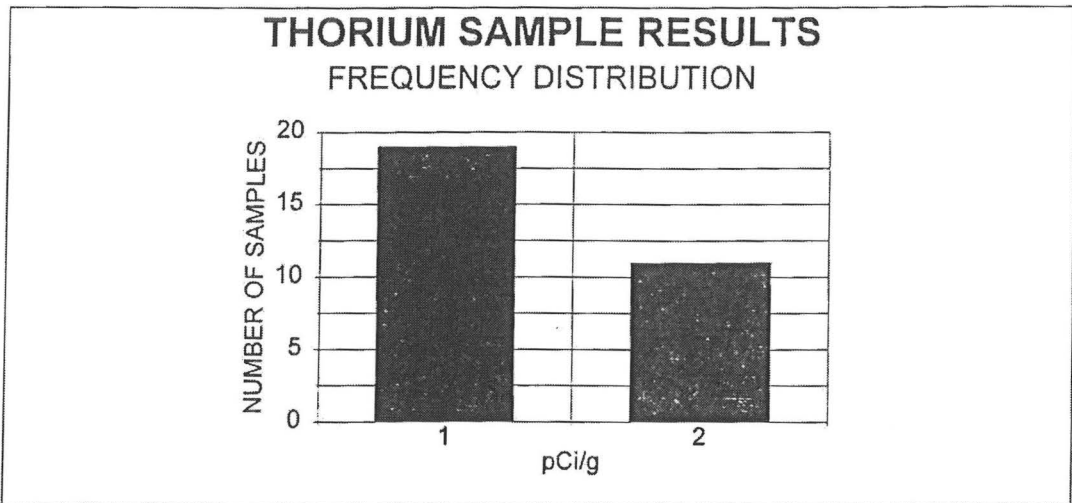
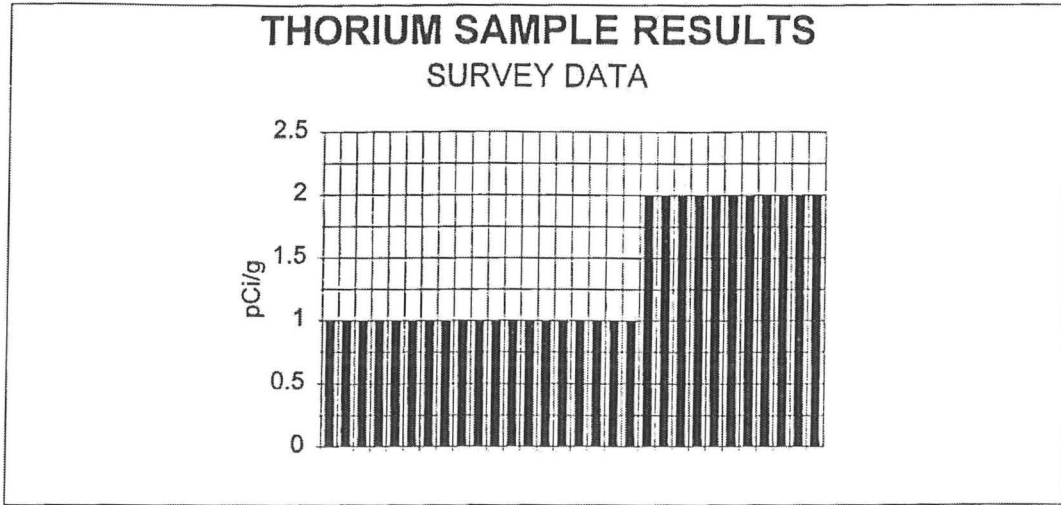
| | | |
|-------------|-----------------------------|-----------------|
| DRWN BY: JE | DATE: 7/9/97 | SCALE: AS SHOWN |
| JOB NO. | DRAWING NO. 97PODJSS-CONF-0 | REV. 0 |

**PHASE II, SUB-AREA "J" - SURFACE
 LAKE
 CIMARRON SOIL COUNTER
 TOTAL URANIUM SAMPLE RESULTS
 SITE BACKGROUND OF 4 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|---------------------------|-----------|
| NUMBER OF SAMPLES | 30 |
| AVERAGE SAMPLE | 10 |
| MINIMUM SAMPLE | 6 |
| MAXIMUM SAMPLE | 19 |
| STANDARD DEVIATION | 4 |

**PHASE II, SUB-AREA "J" - SURFACE
 LAKE
 CIMARRON SOIL COUNTER
 THORIUM (NAT) SAMPLE RESULTS
 SITE BACKGROUND OF 1.5 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|--------------------|----|
| NUMBER OF SAMPLES | 30 |
| AVERAGE SAMPLE | 1 |
| MINIMUM SAMPLE | 1 |
| MAXIMUM SAMPLE | 2 |
| STANDARD DEVIATION | 0 |

CIMARRON CORPORATION - CIMARRON FACILITY
 TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" LAKE (SURFACE)

$n = \text{pCi/g TOTAL U}$

| Number | n | (n-N) | (n-N) ² |
|--------|----|-------|-----------------------|
| 1 | 6 | -3.97 | 15.73 |
| 2 | 6 | -3.97 | 15.73 |
| 3 | 6 | -3.97 | 15.73 |
| 4 | 6 | -3.97 | 15.73 |
| 5 | 6 | -3.97 | 15.73 |
| 6 | 6 | -3.97 | 15.73 |
| 7 | 6 | -3.97 | 15.73 |
| 8 | 7 | -2.97 | 8.80 |
| 9 | 7 | -2.97 | 8.80 |
| 10 | 7 | -2.97 | 8.80 |
| 11 | 8 | -1.97 | 3.87 |
| 12 | 8 | -1.97 | 3.87 |
| 13 | 8 | -1.97 | 3.87 |
| 14 | 9 | -0.97 | 0.93 |
| 15 | 9 | -0.97 | 0.93 |
| 16 | 10 | 0.03 | 0.00 |
| 17 | 10 | 0.03 | 0.00 |
| 18 | 11 | 1.03 | 1.07 |
| 19 | 11 | 1.03 | 1.07 |
| 20 | 11 | 1.03 | 1.07 |
| 21 | 11 | 1.03 | 1.07 |
| 22 | 11 | 1.03 | 1.07 |
| 23 | 12 | 2.03 | 4.13 |
| 24 | 13 | 3.03 | 9.20 |
| 25 | 13 | 3.03 | 9.20 |
| 26 | 14 | 4.03 | 16.27 |
| 27 | 16 | 6.03 | 36.40 |
| 28 | 16 | 6.03 | 36.40 |
| 29 | 16 | 6.03 | 36.40 |
| 30 | 19 | 9.03 | 81.60 |
| 31 | | | |
| 32 | | | |
| 33 | | | |
| 34 | | | |
| 35 | | | |
| 36 | | | |
| 37 | | | |
| 38 | | | |
| 39 | | | |
| 40 | | | |
| 41 | | | |
| 42 | | | |
| 43 | | | |
| 44 | | | |
| 45 | | | |
| 46 | | | |
| 47 | | | |
| 48 | | | |
| 49 | | | |
| 50 | | | |
| 299 | | | 384.97 |
| Sum(n) | | | Sum(n-N) ² |

No. of Samples (x) : **30**

COUNT TIME: 5 MINUTES

Sample Mean (N) = Sum(n) / (x)

Sample Mean (N) : **10.0**

Standard Deviation (Sd) = SQRT [(n-N)² / (x - 1)]

Standard Deviation: **3.6**

2 Std Deviations: **7.3**

Degree of Freedom(df) = (x) - 1 Data listed on Table B-1

(df) = **1.699**

Area's Average Level (A μ) = (N) + (df) x [(Sd)/(x)]

(A μ) = **11.10** pCi/gU TOTAL U

GUIDELINE VALUE: **30** pCi/gU TOTAL U

Acceptable Level: **34.0** pCi/gU TOTAL U

(30 PLUS BACKGROUND)

TABLE B - 1

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | Infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |

For values of Degrees of Freedom not listed:
 Interpolate between the listed values.

| | | | |
|--------------------|--------|--|-----|
| (df) high value(Z) | is (B) | | 95% |
| (df) low value(Y) | is (A) | | 95% |

Desired value(df) (X) **29** is calculated as follow:

$\text{EXP}[(\text{Ln}(B)-\text{Ln}(A)) + (Z-Y) / (X-Y) + \text{Ln}(A)]$

The (df) value for (X) **29** **1.699** **95%**

PERFORMED BY: *Spring Powell*
 REVIEWED BY: *W. C. Rogers*

DATE: *4-8-97*
 DATE: *4-8-97*

CIMARRON CORPORATION
 CIMARRON FACILITY
 PHASE II, SUB-AREA "J"
 LAKE
 COMPOSITE SAMPLES OVER DEPTH OF SEDIMENT

DATE: 02/28/97

| NO. | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | Sample | |
|-----|-------------|------------------|---------------|------------------|---------|----------|
| | | | | | Total-U | Th (Nat) |
| 1 | 260W-90N | *** | *** | *** | 6 | 1 |
| 2 | 270W-80N | *** | *** | *** | 10 | 1 |
| 3 | 290W-40N | *** | *** | *** | 6 | 1 |
| 4 | 290W-50N | *** | *** | *** | 8 | 1 |
| 5 | 290W-60N | *** | *** | *** | 8 | 1 |
| 6 | 290W-70N | *** | *** | *** | 6 | 1 |
| 7 | 290W-80N | *** | *** | *** | 6 | 1 |
| 8 | 290W-90N | *** | *** | *** | 11 | 2 |
| 9 | 290W-100N | *** | *** | *** | 7 | 1 |
| 0 | 290W-110N | *** | *** | *** | 16 | 2 |
| 1 | 290W-120N | *** | *** | *** | 12 | 1 |
| 2 | 290W-130N | *** | *** | *** | 7 | 2 |
| 3 | 290W-140N | *** | *** | *** | 9 | 1 |
| | 310W-100S | *** | *** | *** | 7 | 1 |
| 5 | 310W-190N | *** | *** | *** | 9 | 2 |
| 6 | 320W-40S | *** | *** | *** | 13 | 1 |
| 7 | 320W-10N | *** | *** | *** | 13 | 1 |
| 8 | 320W-60N | *** | *** | *** | 11 | 2 |

*** - Field survey reading NOT taken over standing water. Data collected over standing water would be low and background data would vary from reported values.

MOST SAMPLES ARE 0-1', SOME AREA 0-3'

| INSTRUMENTS: | RESULTS IN: | BACKGROUND | MDA |
|--|-------------|------------|-----|
| DILUM MICRO 'R' METER - MODEL | μR/hr | N/A | N/A |
| DILUM 2220, LEAD SHIELDED 3" X 1/2" NaI DETECTOR | CPM | N/A | N/A |
| | | Total U | 4 |
| | | Th(Nat) | 10 |
| CIMARRON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR | pCi/g | Th(Nat) | 1.5 |
| | | | 1 |

BACKGROUND NOT SUBTRACTED

REVIEWED BY:

W.A. Rogers

DATE: 3-3-97

BY: AJLSURF

CIMARRON CORPORATION
 CIMARRON FACILITY
 PHASE II, SUB-AREA "J"
 LAKE
 COMPOSITE SAMPLES OVER DEPTH OF SEDIMENT

DATE: 02/28/97

| J | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | Sample | |
|---|-------------|------------------|---------------|------------------|---------|-----------|
| | | | | | Total-U | Th (Nat) |
| | | | | | 1 | 320W-110N |
| 2 | 320W-160N | *** | *** | *** | 11 | 2 |
| 3 | 320W-190N | *** | *** | *** | 8 | 1 |
| 4 | 320W-210N | *** | *** | *** | 6 | 1 |
| 5 | 330W-80S | *** | *** | *** | 10 | 1 |
| 6 | 330W-190N | *** | *** | *** | 16 | 1 |
| 7 | 340W-190N | *** | *** | *** | 16 | 2 |
| 8 | 350W-100S | *** | *** | *** | 6 | 1 |
| 9 | 350W-190N | *** | *** | *** | 11 | 2 |
| 0 | 360W-190N | *** | *** | *** | 19 | 2 |
| 1 | 370W-190N | *** | *** | *** | 14 | 2 |
| 2 | 380W-190N | *** | *** | *** | 6 | 2 |
| | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |

*** - Field survey reading NOT taken over standing water. Data collected over standing water would be low and background data would vary from reported values.

MOST SAMPLES ARE 0-1', SOME AREA 0-3'

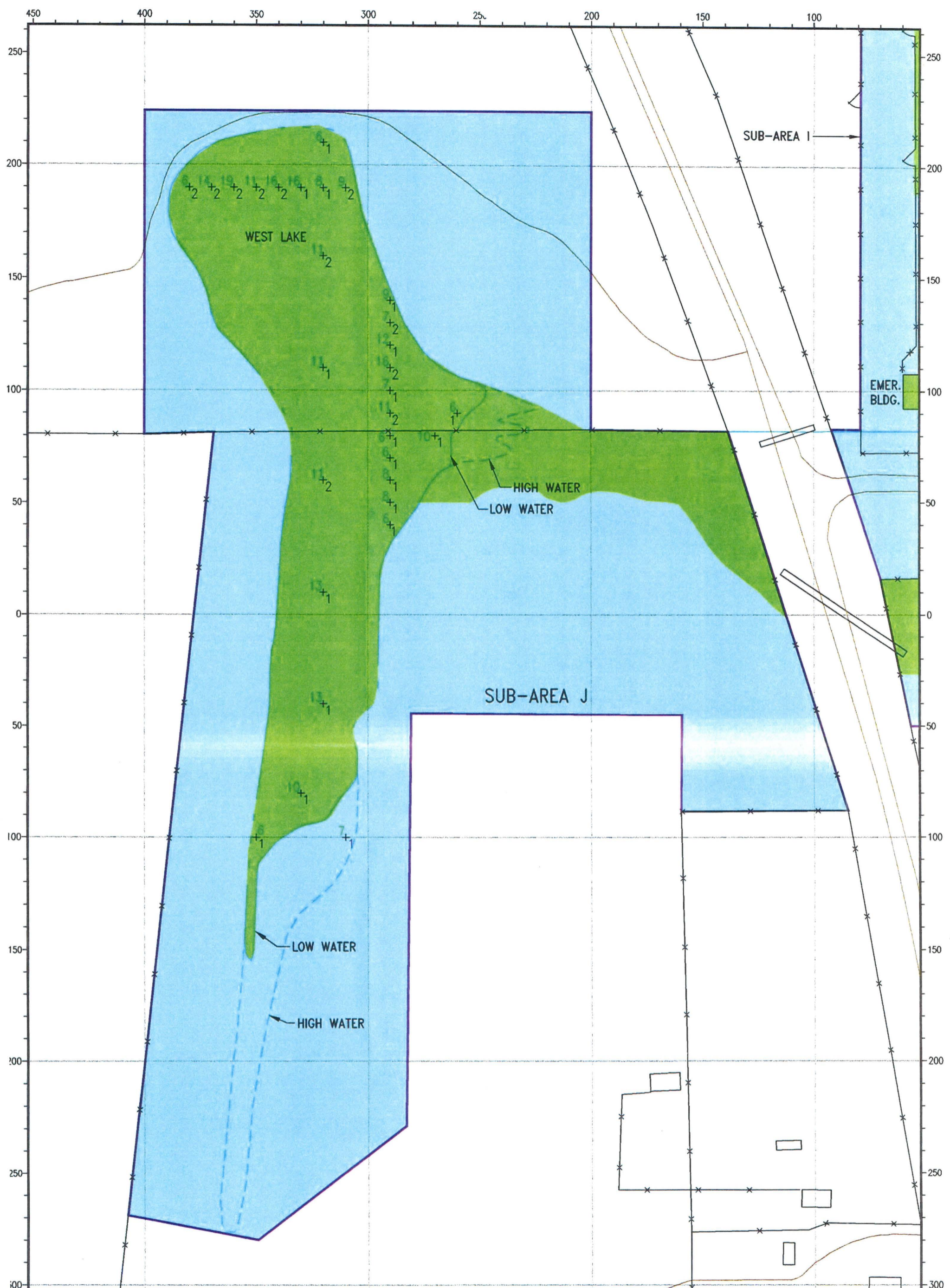
| INSTRUMENTS: | RESULTS IN: | BACKGROUND | MDA |
|--|-------------|-------------|-----|
| DLUM MICRO 'R' METER - MODEL | μR/hr | N/A | N/A |
| DLUM 2220, LEAD SHIELDED 3" X 1/2" NaI DETECTOR | CPM | N/A | N/A |
| | | Total U 4 | 10 |
| CIMARRON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR | pCi/g | Th(Nat) 1.5 | 1 |

BACKGROUND NOT SUBTRACTED

VIEWED BY:
 AJLSURF

W.A. Rogers

DATE: 3-3-97



NOTES:
 SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).
 CIMARRON GAMMA SPEC SOIL COUNTER.
 SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.

⊕ URANIUM
+ THORIUM

40 0 40
 ───────────
 SCALE IN METERS

NORTH

| LEGEND | |
|---|----------------------------|
| | UNAFFECTED AREA (PHASE II) |
| | AFFECTED AREA (PHASE II) |

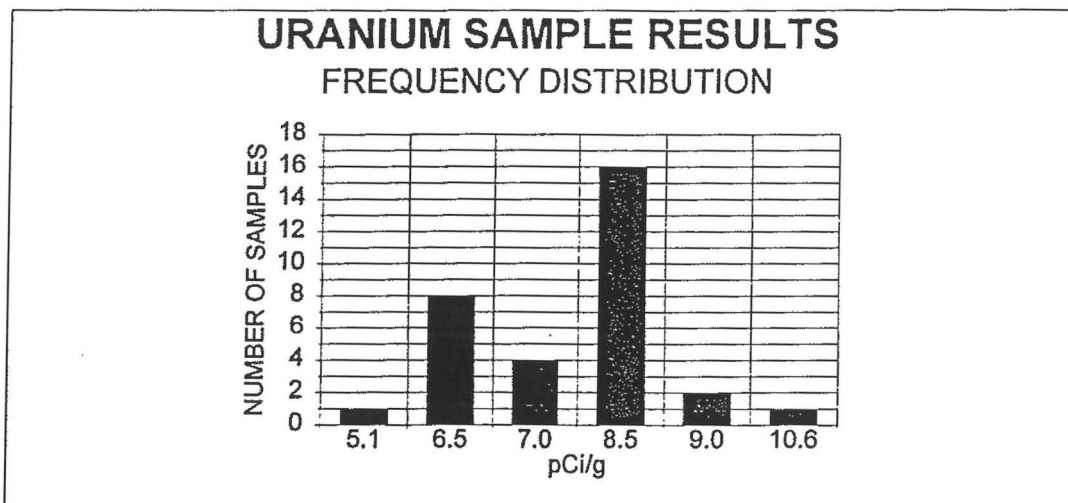
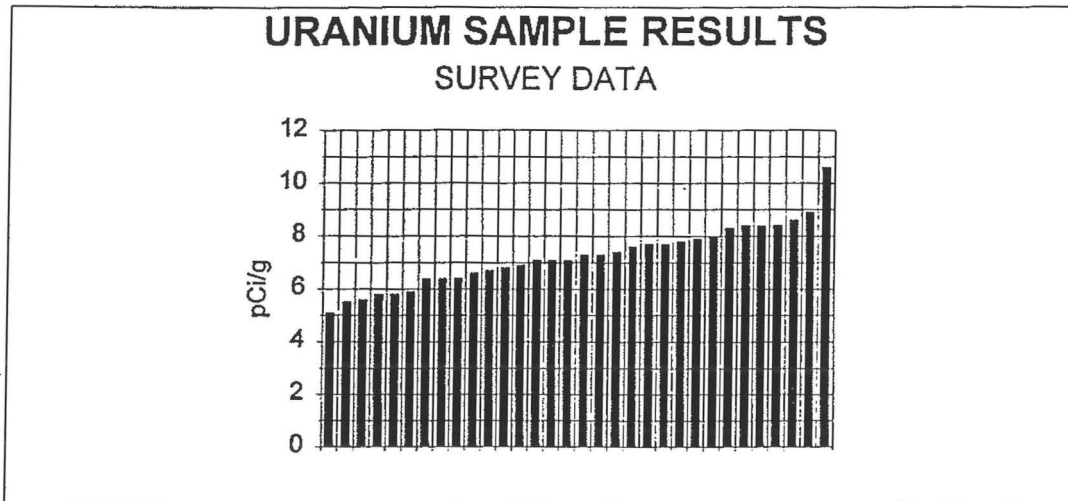
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|------|-----------------|----------|-----------|-----------|---------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 |

CIMARRON CORPORATION

**CIMARRON FACILITY
 PHASE II - SUB-AREA J
 POST REMEDIATION WEST LAKE AREA
 SOIL SAMPLE RESULTS (1997)
 SOIL SAMPLE ALIQUOT: 0-6"**

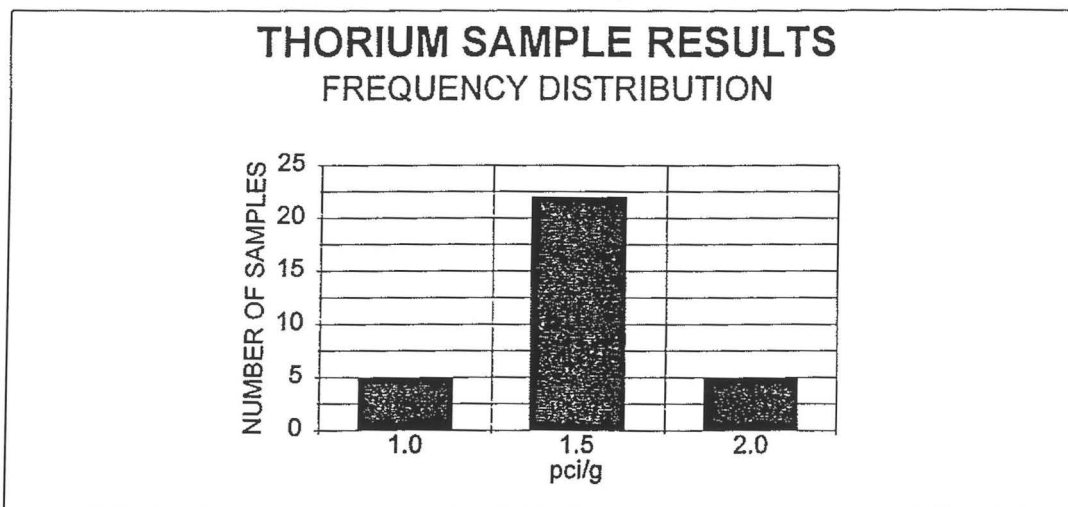
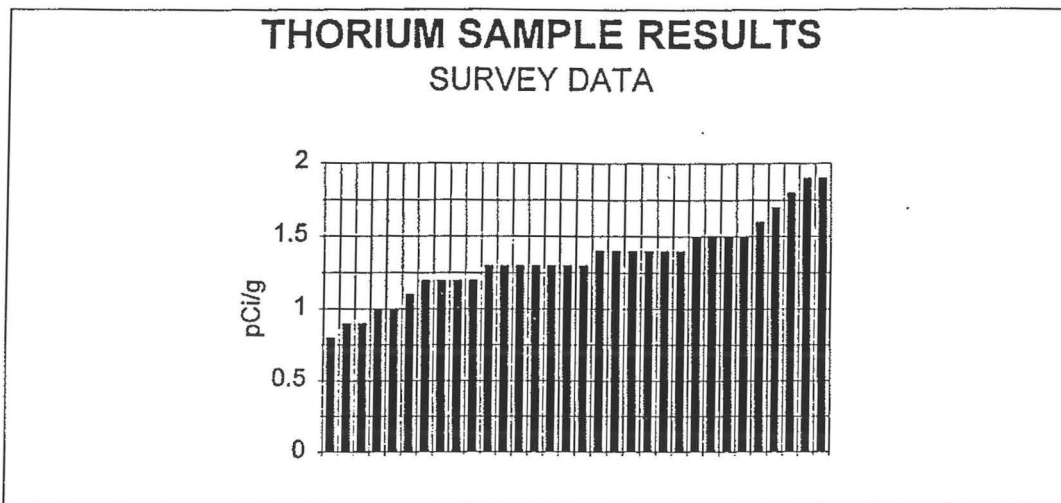
| | | |
|--------------|------------------------|-----------------|
| DRWN. BY: JE | DATE: 7/9/97 | SCALE: AS SHOWN |
| JOB NO.: | DRAWING NO. 97POLJSS-0 | REV. 0 |

**PHASE II, SUB-AREA "J" - SURFACE
 UNAFFECTED AREA
 CIMARRON SOIL COUNTER
 TOTAL URANIUM SAMPLE RESULTS
 SITE BACKGROUND OF 4 pCi/g NOT SUBTRACTED
 MARCH 1997**



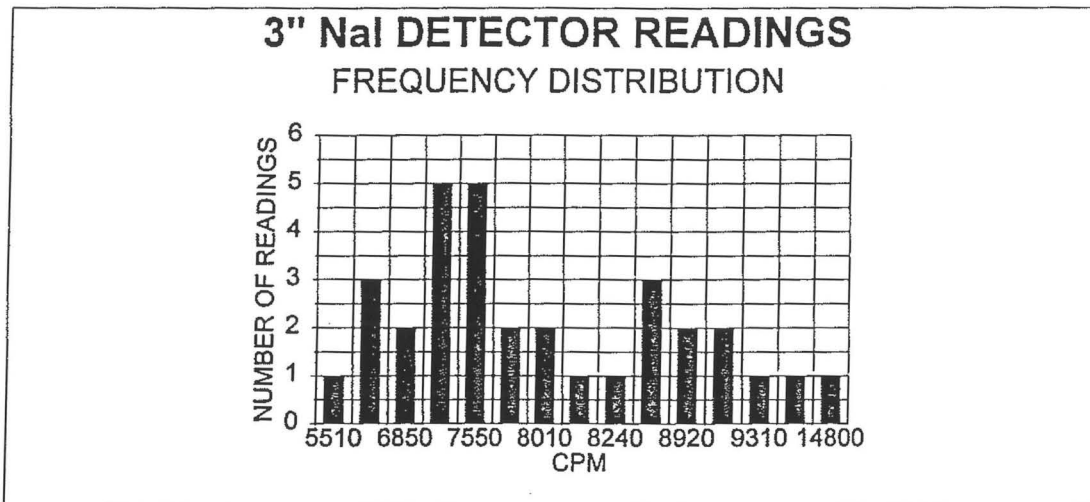
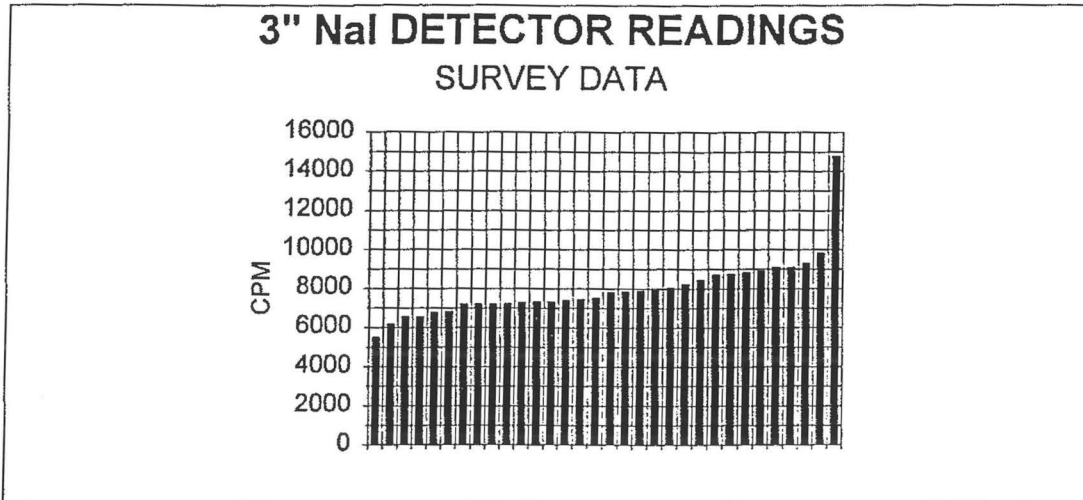
| | |
|---------------------------|-----------|
| NUMBER OF SAMPLES | 32 |
| AVERAGE SAMPLE | 7 |
| MINIMUM SAMPLE | 5 |
| MAXIMUM SAMPLE | 11 |
| STANDARD DEVIATION | 1 |

**PHASE II, SUB-AREA "J" - SURFACE
 UNAFFECTED AREA
 CIMARRON SOIL COUNTER
 THORIUM (NAT) SAMPLE RESULTS
 SITE BACKGROUND OF 1.5 pCi/g NOT SUBTRACTED
 MARCH 1997**



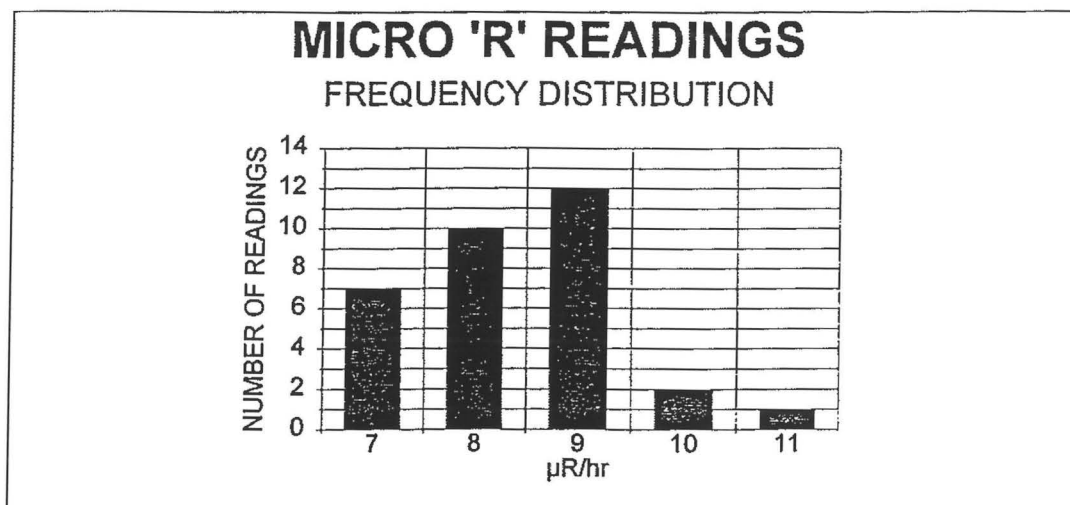
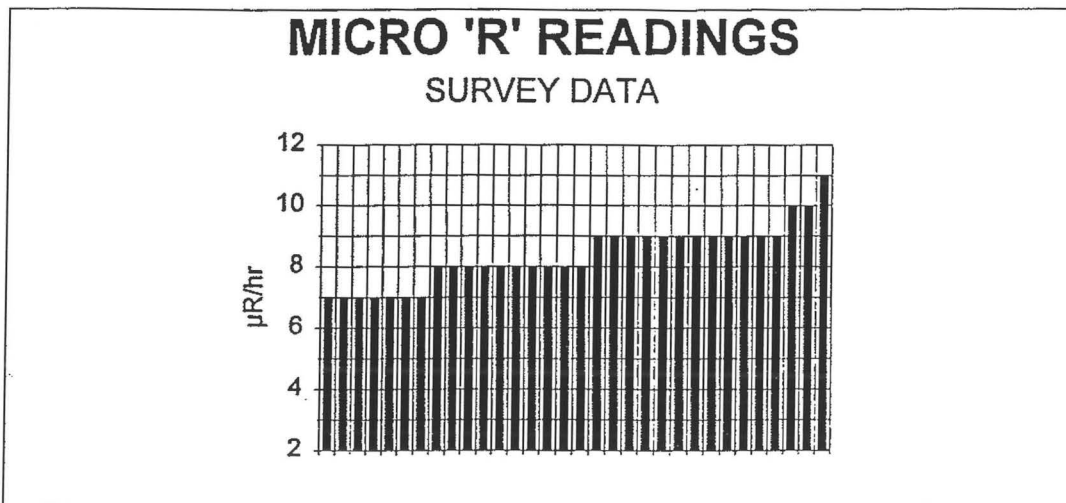
| | |
|---------------------------|-----------|
| NUMBER OF SAMPLES | 32 |
| AVERAGE SAMPLE | 1 |
| MINIMUM SAMPLE | 1 |
| MAXIMUM SAMPLE | 2 |
| STANDARD DEVIATION | 0 |

PHASE II, SUB-AREA "J" - SURFACE
 UNAFFECTED AREA
 GROSS GAMMA READINGS IN CPM
 LUDLUM MODEL 2221, S/N 97264
 BACKGROUND AVERAGE: 7238
 MARCH 1997



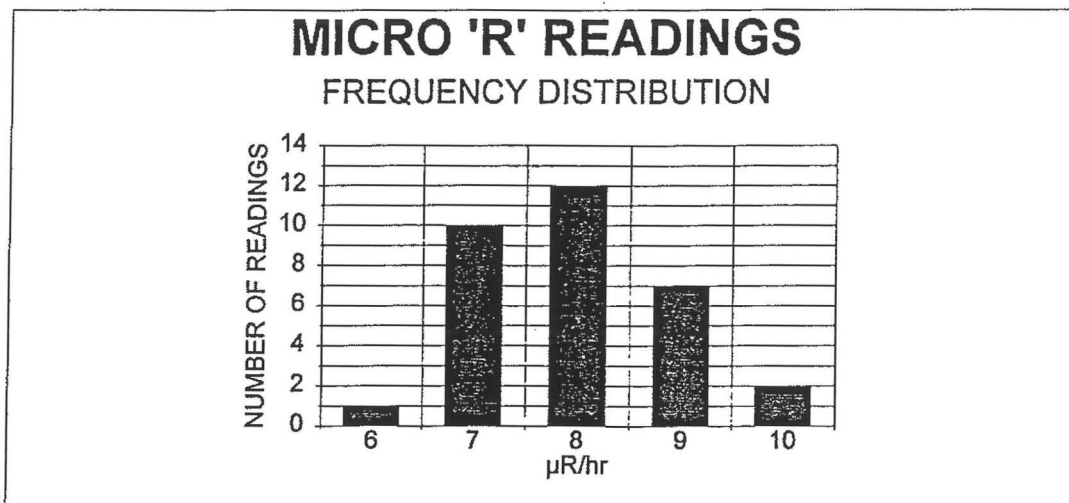
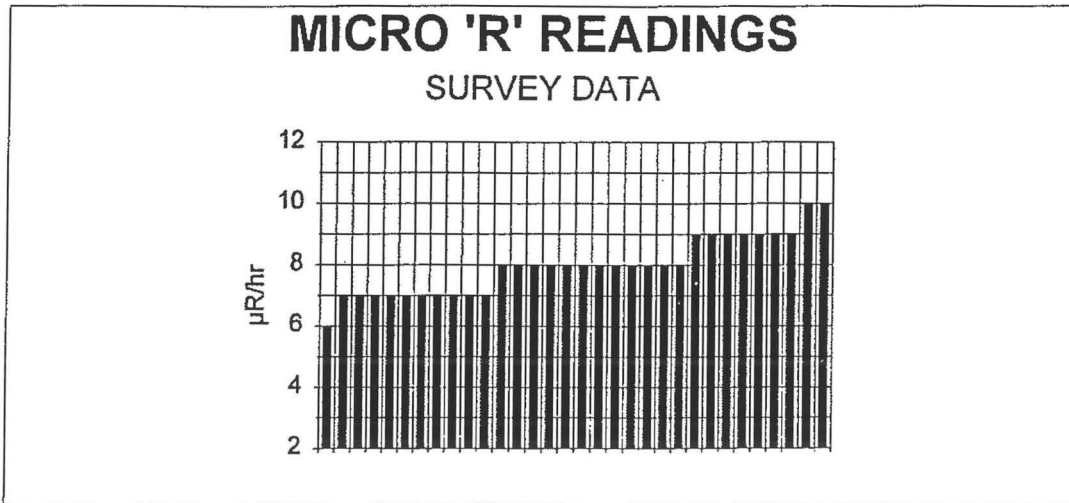
| | |
|--------------------|-------|
| NUMBER OF READINGS | 32 |
| AVERAGE READING | 7983 |
| MINIMUM READING | 5506 |
| MAXIMUM READING | 14800 |
| STANDARD DEVIATION | 1559 |

PHASE II, SUB-AREA "J" - SURFACE
 UNAFFECTED AREA
 MICRO 'R' READINGS AT SURFACE
 LUDLUM MODEL 19, S/N 111299
 RESULTS IN $\mu\text{R/hr}$
 MARCH 1997



| | |
|--------------------|----|
| NUMBER OF READINGS | 32 |
| AVERAGE READING | 8 |
| MINIMUM READING | 7 |
| MAXIMUM READING | 11 |
| STANDARD DEVIATION | 1 |

PHASE II, SUB-AREA "J" - SURFACE
UNAFFECTED AREA
MICRO 'R' READINGS AT 1 METER ABOVE SURFACE
LUDLUM MODEL 19, S/N 111299
RESULTS IN $\mu\text{R/hr}$
MARCH 1997



| | |
|---------------------------|-----------|
| NUMBER OF READINGS | 32 |
| AVERAGE READING | 8 |
| MINIMUM READING | 6 |
| MAXIMUM READING | 10 |
| STANDARD DEVIATION | 1 |

CIMARRON CORPORATION - CIMARRON FACILITY
TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" UNAFFECTED AREA (SURFACE)

n = pCi/g Th (NAT)

| Number | n | (n-N) | (n-N) ² |
|--------|---------------|-------|-----------------------------|
| 1 | 0.8 | -0.54 | 0.29 |
| 2 | 0.9 | -0.44 | 0.19 |
| 3 | 0.9 | -0.44 | 0.19 |
| 4 | 1.0 | -0.34 | 0.12 |
| 5 | 1.0 | -0.34 | 0.12 |
| 6 | 1.1 | -0.24 | 0.06 |
| 7 | 1.2 | -0.14 | 0.02 |
| 8 | 1.2 | -0.14 | 0.02 |
| 9 | 1.2 | -0.14 | 0.02 |
| 10 | 1.2 | -0.14 | 0.02 |
| 11 | 1.3 | -0.04 | 0.00 |
| 12 | 1.3 | -0.04 | 0.00 |
| 13 | 1.3 | -0.04 | 0.00 |
| 14 | 1.3 | -0.04 | 0.00 |
| 15 | 1.3 | -0.04 | 0.00 |
| 16 | 1.3 | -0.04 | 0.00 |
| 17 | 1.3 | -0.04 | 0.00 |
| 18 | 1.4 | 0.06 | 0.00 |
| 19 | 1.4 | 0.06 | 0.00 |
| 20 | 1.4 | 0.06 | 0.00 |
| 21 | 1.4 | 0.06 | 0.00 |
| 22 | 1.4 | 0.06 | 0.00 |
| 23 | 1.4 | 0.06 | 0.00 |
| 24 | 1.5 | 0.16 | 0.03 |
| 25 | 1.5 | 0.16 | 0.03 |
| 26 | 1.5 | 0.16 | 0.03 |
| 27 | 1.5 | 0.16 | 0.03 |
| 28 | 1.6 | 0.26 | 0.07 |
| 29 | 1.7 | 0.36 | 0.13 |
| 30 | 1.8 | 0.46 | 0.21 |
| 31 | 1.9 | 0.56 | 0.31 |
| 32 | 1.9 | 0.56 | 0.31 |
| 33 | | | |
| 34 | | | |
| 35 | | | |
| 36 | | | |
| 37 | | | |
| 38 | | | |
| 39 | | | |
| 40 | | | |
| 41 | | | |
| 42 | | | |
| 43 | | | |
| 44 | | | |
| 45 | | | |
| 46 | | | |
| 47 | | | |
| 48 | | | |
| 49 | | | |
| 50 | | | |
| | 42.9 | | 2.217 |
| | Sum(n) | | Sum(n-N)² |

No. of Samples (x) : **32**

COUNT TIME: 5 MINUTES

Sample Mean (N) = Sum(n) ÷ (x)

Sample Mean (N) : **1.3**

Standard Deviation (Sd) = SQRT [(n-N)² ÷ (x - 1)]

Standard Deviation: **0.27**

2 Std Deviations: **0.53**

Degree of Freedom(df) = (x) - 1 Data listed on Table B-1

(df) = **1.696**

Area's Average Level (Aμ) = (N) + (df) x [(Sd) / SQRT(x)]

(Aμ) = **1.42** pCi/gTh (NAT)

GUIDELINE VALUE: **10** pCi/gTh (NAT)

Acceptable Level: **4.0** pCi/gTh (NAT)

(25% OF GUIDELINE PLUS BACKGROUND)

TABLE B - 1

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | Infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |

For values of Degrees of Freedom not listed:
Interpolate between the listed values.

| | | | | |
|---|-----------|--------------------------|--------------|------------|
| (df) high value(Z) | 40 | is (B) | 1.684 | 95% |
| (df) low value(Y) | 30 | is (A) | 1.697 | 95% |
| Desired value(df) (X) | 31 | is calculated as follow: | | |
| EXP[(Ln(B)-Ln(A)) + (Z-Y) (X-Y) + Ln(A)] | | | | |
| The (df) value for (X) | 31 | 1.696 | 95% | |

PERFORMED BY: Claring Powell DATE: 4-8-97
 REVIEWED BY: W-a. Rogers DATE: 4-8-97

CIMARRON CORPORATION
 CIMARRON FACILITY
 PHASE II, SUB AREA "J"
 UNAFFECTED AREA

DATE: 02/27/97

| N # | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | 0-6" Sample | |
|--------|----------------|------------------------|---------------------|------------------------|-------------|----------|
| | | | | | Total-U | Th (Nat) |
| | | | | | 1 | 90W-80S |
| 2 | 110W-80S | 14800 | 9 | 8 | 8.9 | 1.9 |
| 3 | 130W-20S | 9104 | 9 | 9 | 5.6 | 1.6 |
| 4 | 130W-20S | 9104 | 9 | 9 | 7.3 | 1.4 |
| 5 | 140W-20S | 8050 | 10 | 9 | 6.4 | 1.5 |
| 6 | 180W-0N | 7820 | 8 | 8 | 7.7 | 1.0 |
| 7 | 180W-50N | 7210 | 9 | 8 | 7.8 | 1.2 |
| 8 | 180W-50N | 7210 | 9 | 8 | 8.4 | 1.1 |
| 9 | 190W-20S | 5506 | 7 | 6 | 6.4 | 1.3 |
| 10 | 190W-20N | 6560 | 7 | 7 | 7.4 | 1.2 |
| 11 | 200W-130N | 7460 | 8 | 8 | 5.1 | 1.2 |
| 12 | 220W-210N | 8238 | 8 | 8 | 7.3 | 1.9 |
| 13 | 230W-50N | 7420 | 7 | 7 | 5.8 | 1.4 |
| 14 | 240W-30N | 8460 | 9 | 8 | 6.6 | 1.8 |
| 15 | 250W-210N | 8834 | 8 | 8 | 6.9 | 0.9 |
| 16 | 270W-210N | 6558 | 7 | 7 | 5.5 | 1.3 |
| 17 | 280W-180N | 7238 | 8 | 7 | 7.7 | 1.3 |
| 18 | 280W-70S | 6198 | 7 | 7 | 5.9 | 0.9 |

| INSTRUMENTS: | RESULTS IN: | BACKGROUND | MDA |
|--|-------------|------------|------|
| DLUM MICRO 'R' METER - MODEL 19 - S/N 111299 | µR/hr | 7-10 | 7 |
| DLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR S/N 97264 | CPM | 7238 | N/A |
| | | Total U | 4 |
| | | Th(Nat) | 10 |
| CIMARRON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR | pCi/g | Th(Nat) | 1.5 |
| | | | 0.25 |

BACKGROUND NOT SUBTRACTED

REVIEWED BY:
 E: AJUASURF

W.A. Rogers

DATE: 3-3-97