

LEGEND

Property Boundary

Area of Concern

Solid Waste Management Unit

Approximate Location of Stormwater

Piping Below Ground

Approximate Location of Stormwater

Piping Above Ground

Depth

0 to 1 ft bgs

>1 to 3 ft bgs

>3 to 6 ft bgs

>6 to 10 ft bgs

>11 to 15 ft bgs

>16 ft bgs

Concentration

Non-detect

Note:

Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Antimony  
ECV 0.285 mg/kg  
Residential Screening Level 31 mg/kg  
Commercial Screening Level 470 mg/kg



**Figure 3-2a**  
**Antimony**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
P&E Topack Compressor Station, Needles, California



**LEGEND**

Property Boundary  
Area of Concern  
Solid Waste Management Unit  
Approximate Location of Stormwater  
Piping Below Ground  
Approximate Location of Stormwater  
Piping Above Ground

**Depth**

0 to 1 ft bgs  
>1 to 3 ft bgs  
>3 to 6 ft bgs  
>6 to 10 ft bgs  
>11 to 15 ft bgs  
>16 ft bgs

**Concentration**

Non-detect  
≤ screening level  
> ECV to ≤10x ECV

Note:  
Topographic contours shown are in 2-foot intervals

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Arsenic  
BGS 11 mg/kg  
ECV 11.4 mg/kg  
Residential Screening Level 0.11 mg/kg  
Commercial Screening Level 0.36 mg/kg

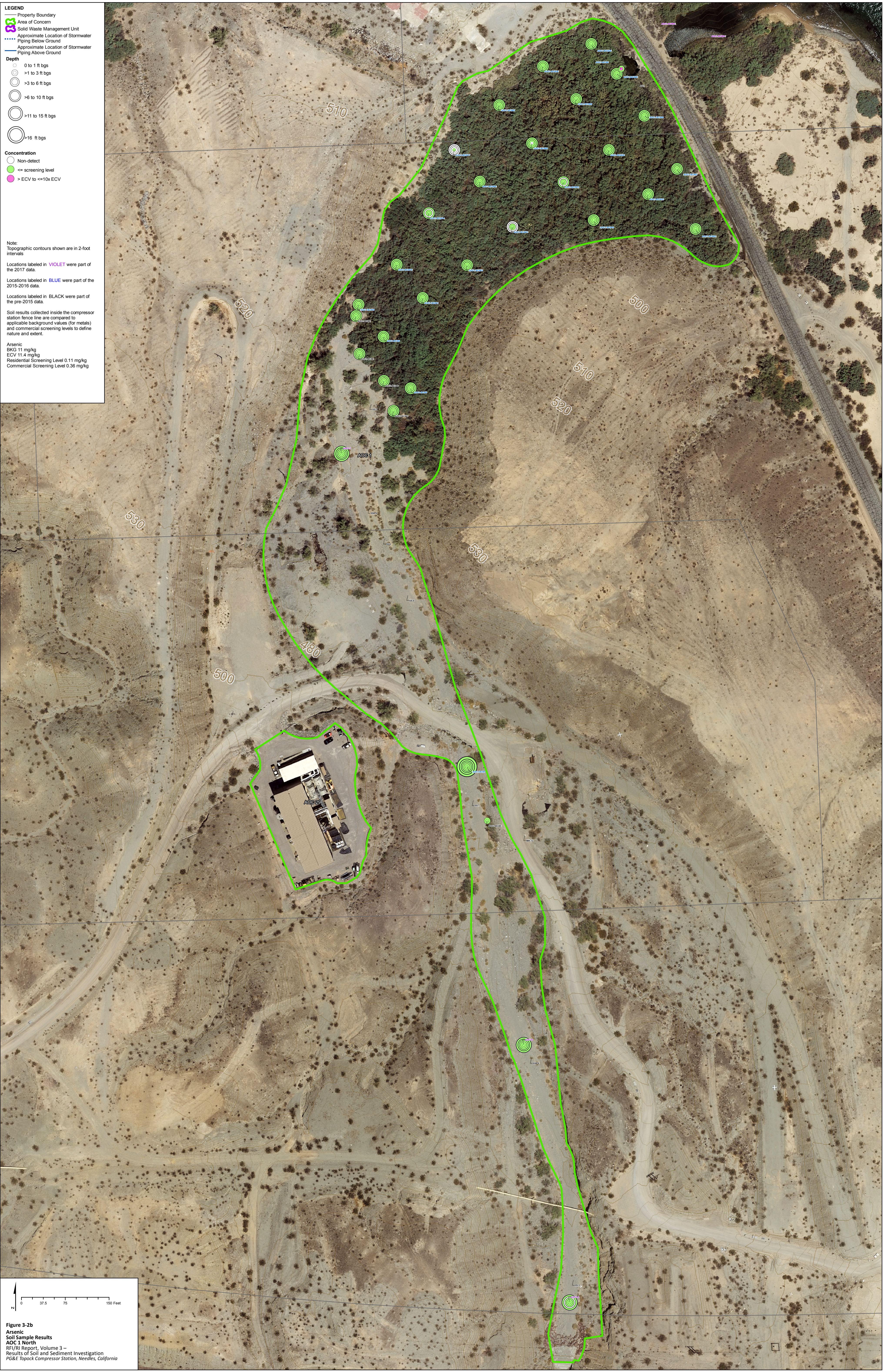


Figure 3-2b  
Arsenic  
Soil Sample Results  
AOC 1 North  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California



LEGEND

Property Boundary

Area of Concern

Solid Waste Management Unit

Approximate Location of Stormwater

Piping Below Ground

Approximate Location of Stormwater

Piping Above Ground

Depth

0 to 1 ft bgs

>1 to 3 ft bgs

>3 to 6 ft bgs

>6 to 10 ft bgs

>11 to 15 ft bgs

>16 ft bgs

Concentration

<= screening level

> background

Note:

Topographic contours shown are in 2-foot intervals

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Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

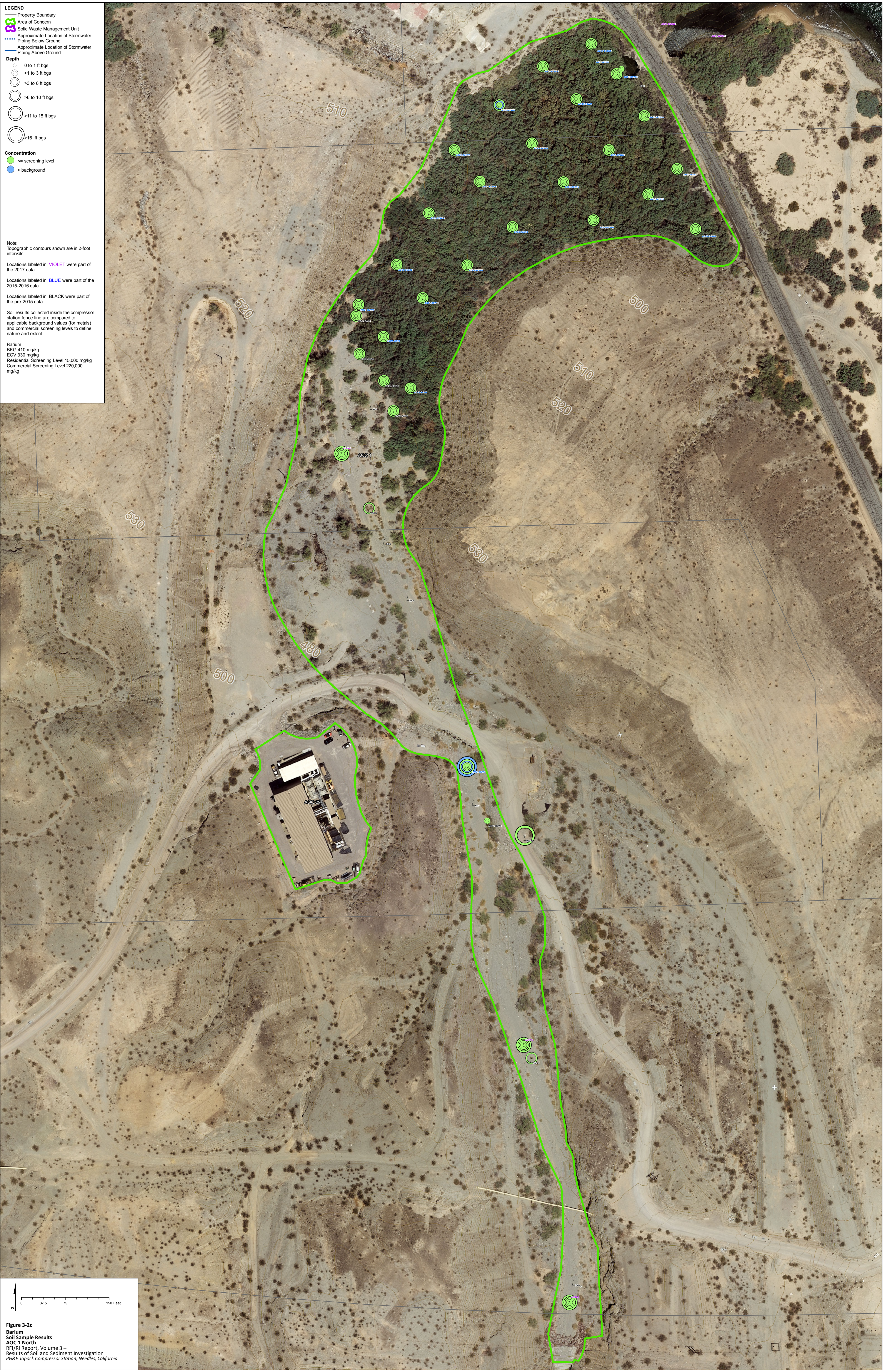
Barium

BKGS 410 mg/kg

ECV 330 mg/kg

Residential Screening Level 15,000 mg/kg

Commercial Screening Level 220,000 mg/kg



**Figure 3-2c**  
**Barium**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
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PG&E Topack Compressor Station, Needles, California



LEGEND

Property Boundary

Area of Concern

Solid Waste Management Unit

Approximate Location of Stormwater

Piping Below Ground

Approximate Location of Stormwater

Piping Above Ground

Depth

0 to 1 ft bgs

>1 to 3 ft bgs

>3 to 6 ft bgs

>6 to 10 ft bgs

>11 to 15 ft bgs

>16 ft bgs

Concentration

Non-detect

<= screening level

> background

Note:

Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Cadmium

BKGS 1.1 mg/kg

ECV 0.015 mg/kg

Residential Screening Level 5.2 mg/kg

Commercial Screening Level 7.3 mg/kg



**Figure 3-2d**  
**Cadmium**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

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Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Hexavalent Chromium  
BKC 0.03 mg/kg  
ECV 139.6 mg/kg  
Residential Screening Level 0.3 mg/kg  
Commercial Screening Level 6.3 mg/kg



**Figure 3-2e**  
**Hexavalent Chromium**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

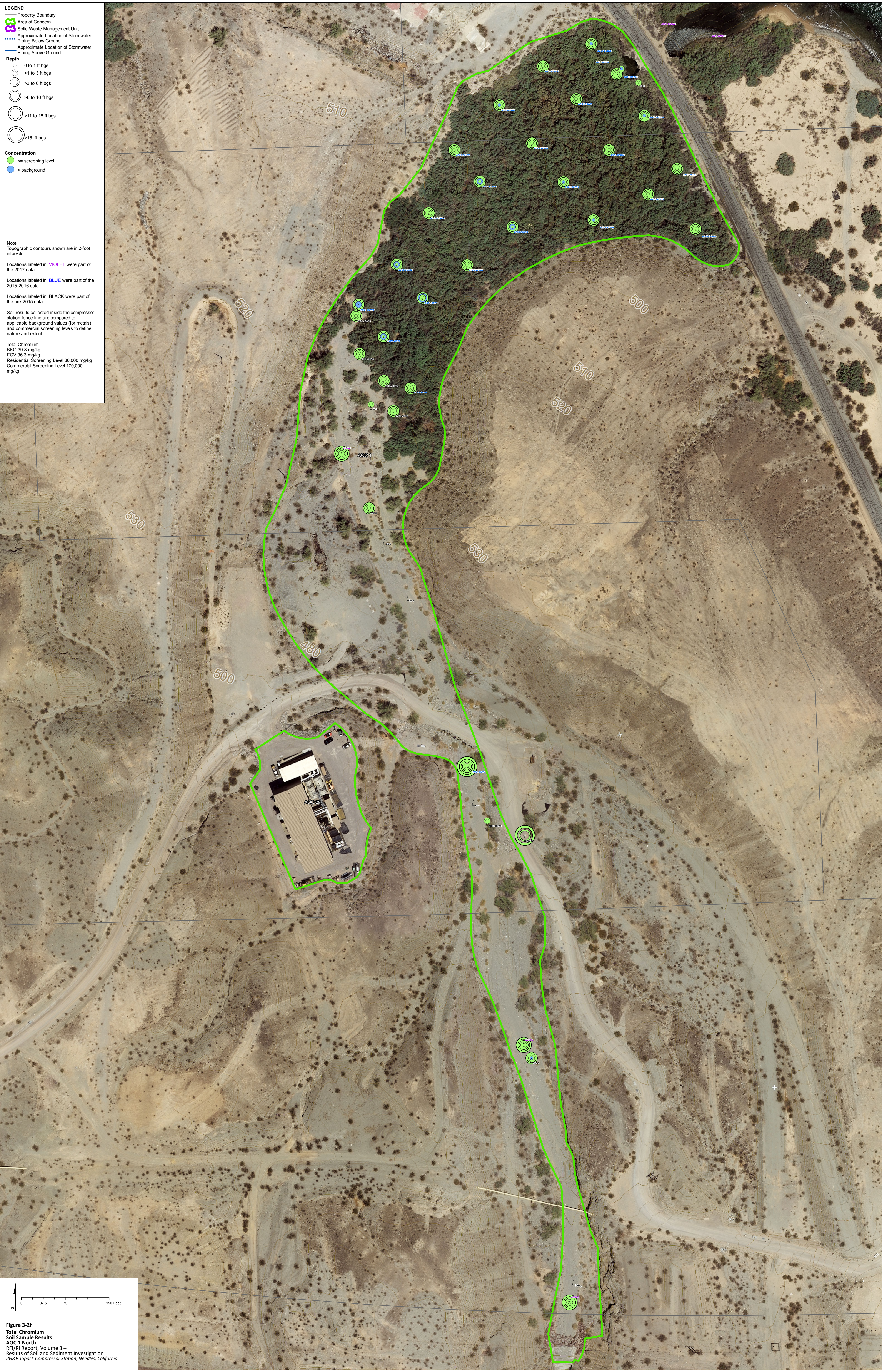
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Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total Chromium  
BKC 39.6 mg/kg  
ECV 36.3 mg/kg  
Residential Screening Level 36,000 mg/kg  
Commercial Screening Level 170,000 mg/kg



**Figure 3-2f**  
**Total Chromium**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- ≤ screening level
- > ECV to ≤10x ECV

Note:  
Topographic contours shown are in 2-foot intervals

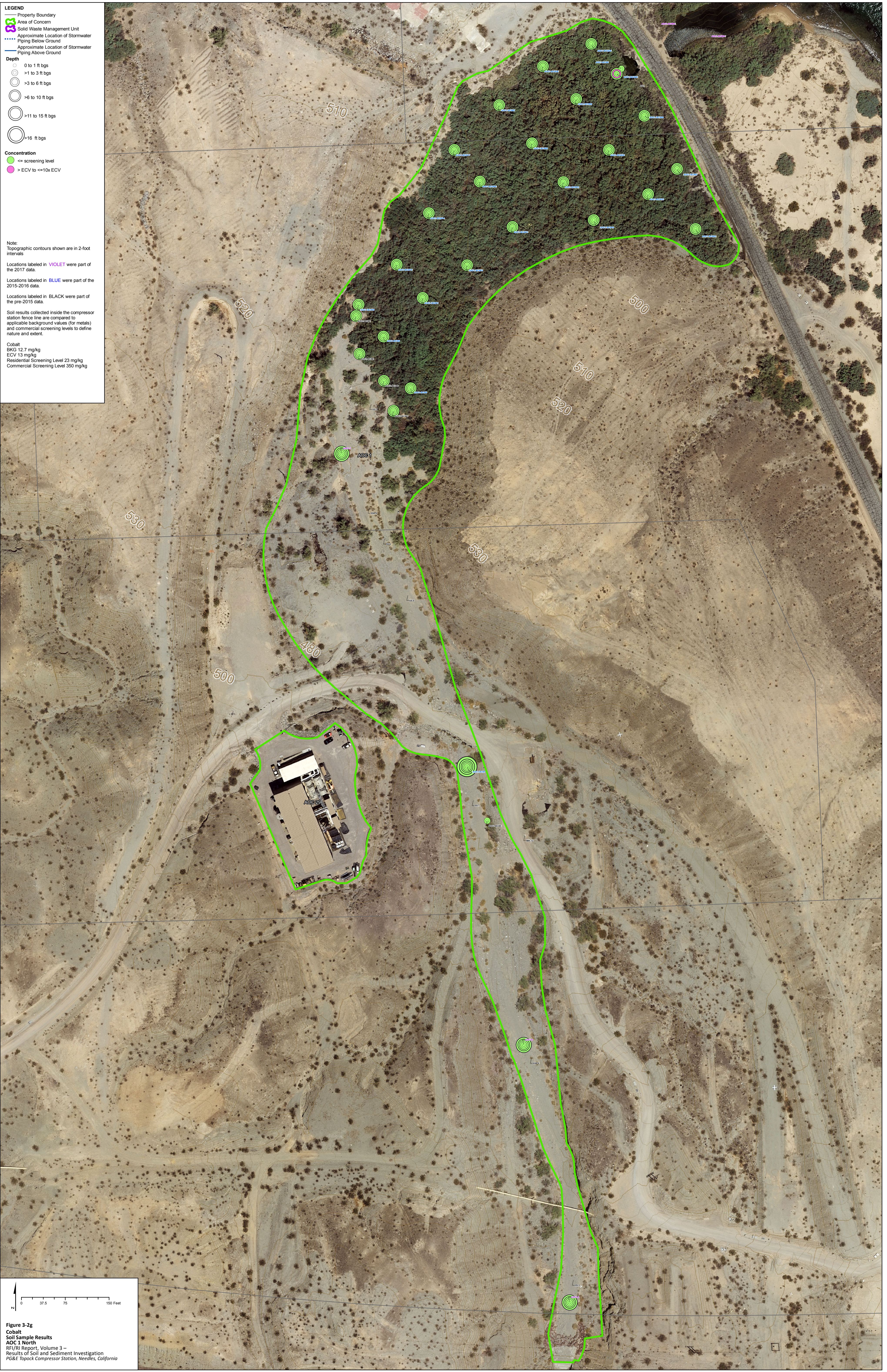
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Cobalt  
BKC 12.7 mg/kg  
ECV 13 mg/kg  
Residential Screening Level 23 mg/kg  
Commercial Screening Level 350 mg/kg



**Figure 3-2g**  
**Cobalt**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
P&E Topack Compressor Station, Needles, California



**LEGEND**

Property Boundary  
Area of Concern  
Solid Waste Management Unit  
Approximate Location of Stormwater  
Piping Below Ground  
Approximate Location of Stormwater  
Piping Above Ground

**Depth**

0 to 1 ft bgs  
>1 to 3 ft bgs  
>3 to 6 ft bgs  
>6 to 10 ft bgs  
>11 to 15 ft bgs  
>16 ft bgs

**Concentration**

Non-detect  
≤ screening level  
> background  
> ECV to ≤10x ECV

Note:  
Topographic contours shown are in 2-foot intervals

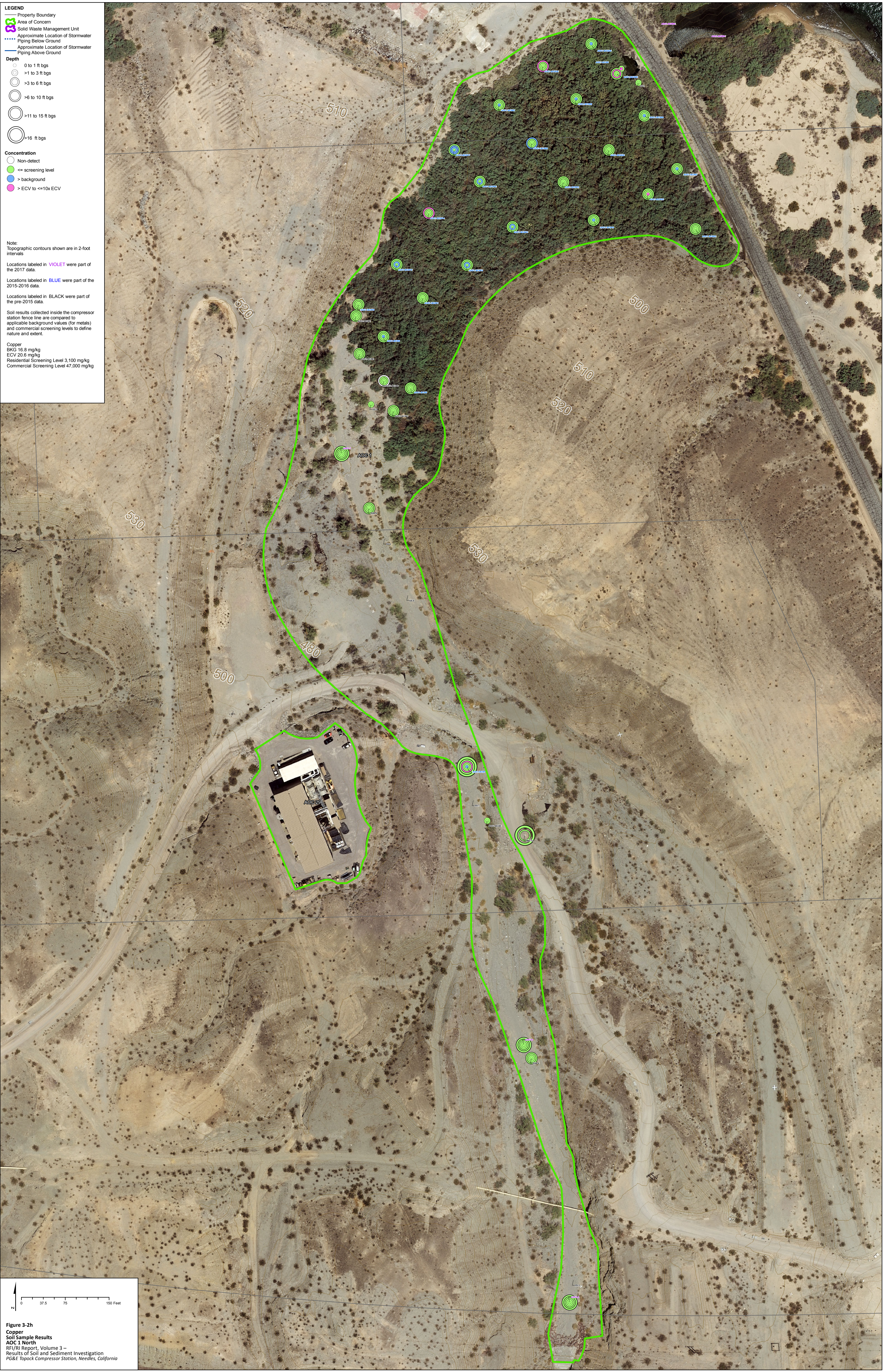
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Copper  
BKC 16.8 mg/kg  
ECV 20.6 mg/kg  
Residential Screening Level 3,100 mg/kg  
Commercial Screening Level 47,000 mg/kg



**Figure 3-2h**  
**Copper**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
P&E Topack Compressor Station, Needles, California



LEGEND

Property Boundary

Area of Concern

Solid Waste Management Unit

Approximate Location of Stormwater

Piping Below Ground

Approximate Location of Stormwater

Piping Above Ground

Depth

0 to 1 ft bgs

>1 to 3 ft bgs

>3 to 6 ft bgs

>6 to 10 ft bgs

>11 to 15 ft bgs

>16 ft bgs

Concentration

Non-detect

<= screening level

> background

Note:

Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Lead

BKGS 9.39 mg/kg

ECV 0.0166 mg/kg

Residential Screening Level 80 mg/kg

Commercial Screening Level 320 mg/kg

The map displays an aerial view of a desert landscape with a compressor station building and parking lot in the lower-left quadrant. A large, irregularly shaped area is outlined in green, representing the Area of Concern (AOC). Within this area, a smaller region is outlined in purple, representing the Solid Waste Management Unit (SWMU). Numerous circular markers with concentric rings are scattered across the map, indicating soil sample locations. The rings represent different depths below the ground surface (bgs), with colors corresponding to lead concentration levels: green for non-detect, blue for screening level, and purple for background. Topographic contours are shown in brown, with labels such as 510, 520, 530, 500, 480, and 550. A scale bar in the bottom left corner indicates distances from 0 to 150 feet, and a north arrow points upwards.

Figure 3-21  
Lead  
Soil Sample Results  
AOC 1 North  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California

ch2m



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

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Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mercury  
ECV 0.0125 mg/kg  
Residential Screening Level 1 mg/kg  
Commercial Screening Level 4.5 mg/kg



**Figure 3-2J**  
**Mercury**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topack Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

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Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Molybdenum  
BKGS 1.37 mg/kg  
ECV 2.25 mg/kg  
Residential Screening Level 390 mg/kg  
Commercial Screening Level 5,800 mg/kg



**Figure 3-2k**  
**Molybdenum**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- <= screening level

Note:  
Topographic contours shown are in 2-foot intervals

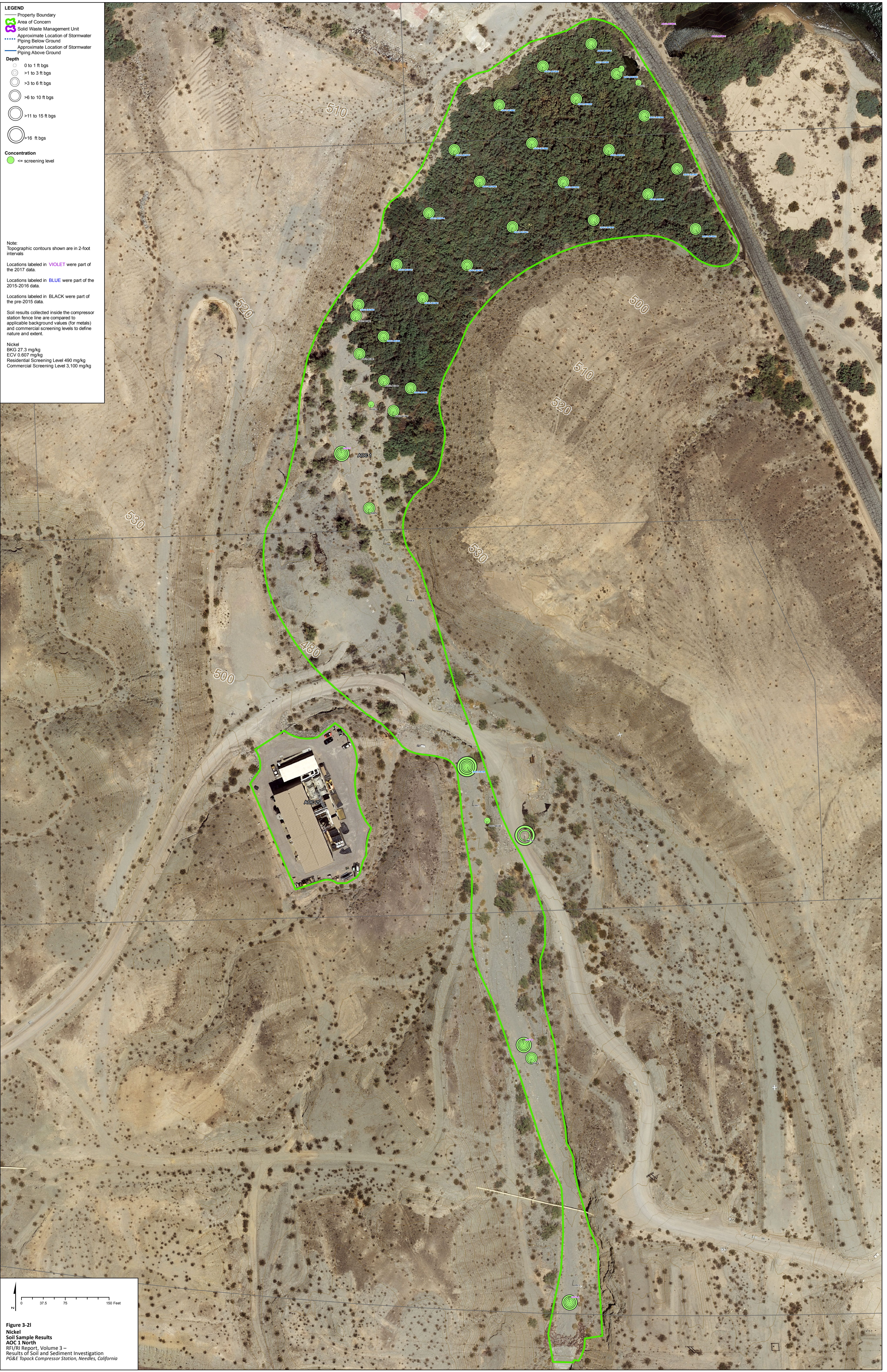
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Nickel  
BKG 27.3 mg/kg  
ECV 0.607 mg/kg  
Residential Screening Level 490 mg/kg  
Commercial Screening Level 3,100 mg/kg





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect

Note:  
Topographic contours shown are in 2-foot intervals

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Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Thallium  
ECV 2.32 mg/kg  
Residential Screening Level 0.78 mg/kg  
Commercial Screening Level 12 mg/kg



**Figure 3-2m**  
**Thallium**  
**Soil Sample Results**  
**AOC 1 North**  
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PG&E Topack Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- ≤ screening level

**Note:**  
Topographic contours shown are in 2-foot intervals.

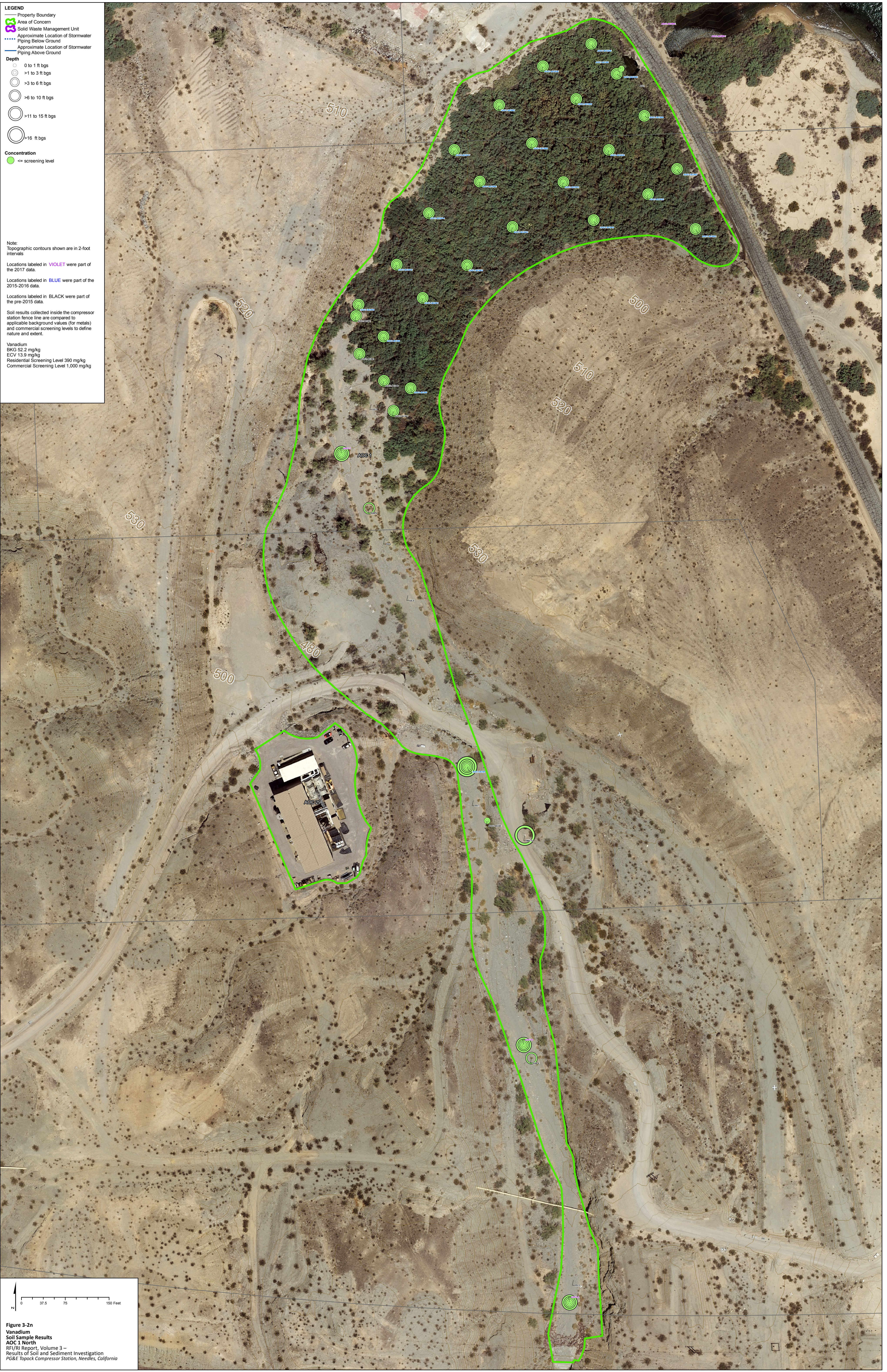
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Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Vanadium  
BKGS 52.2 mg/kg  
ECV 13.9 mg/kg  
Residential Screening Level 390 mg/kg  
Commercial Screening Level 1,000 mg/kg



**Figure 3-2n**  
**Vanadium**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California



LEGEND

Property Boundary

Area of Concern

Solid Waste Management Unit

Approximate Location of Stormwater Piping Below Ground

Approximate Location of Stormwater Piping Above Ground

Depth

0 to 1 ft bgs

>1 to 3 ft bgs

>3 to 6 ft bgs

>6 to 10 ft bgs

>11 to 15 ft bgs

>16 ft bgs

Concentration

<= screening level

> background

Note:

Topographic contours shown are in 2-foot intervals

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Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Zinc  
BKG 59 mg/kg  
ECV 0.164 mg/kg  
Residential Screening Level 23,000 mg/kg  
Commercial Screening Level 350,000 mg/kg

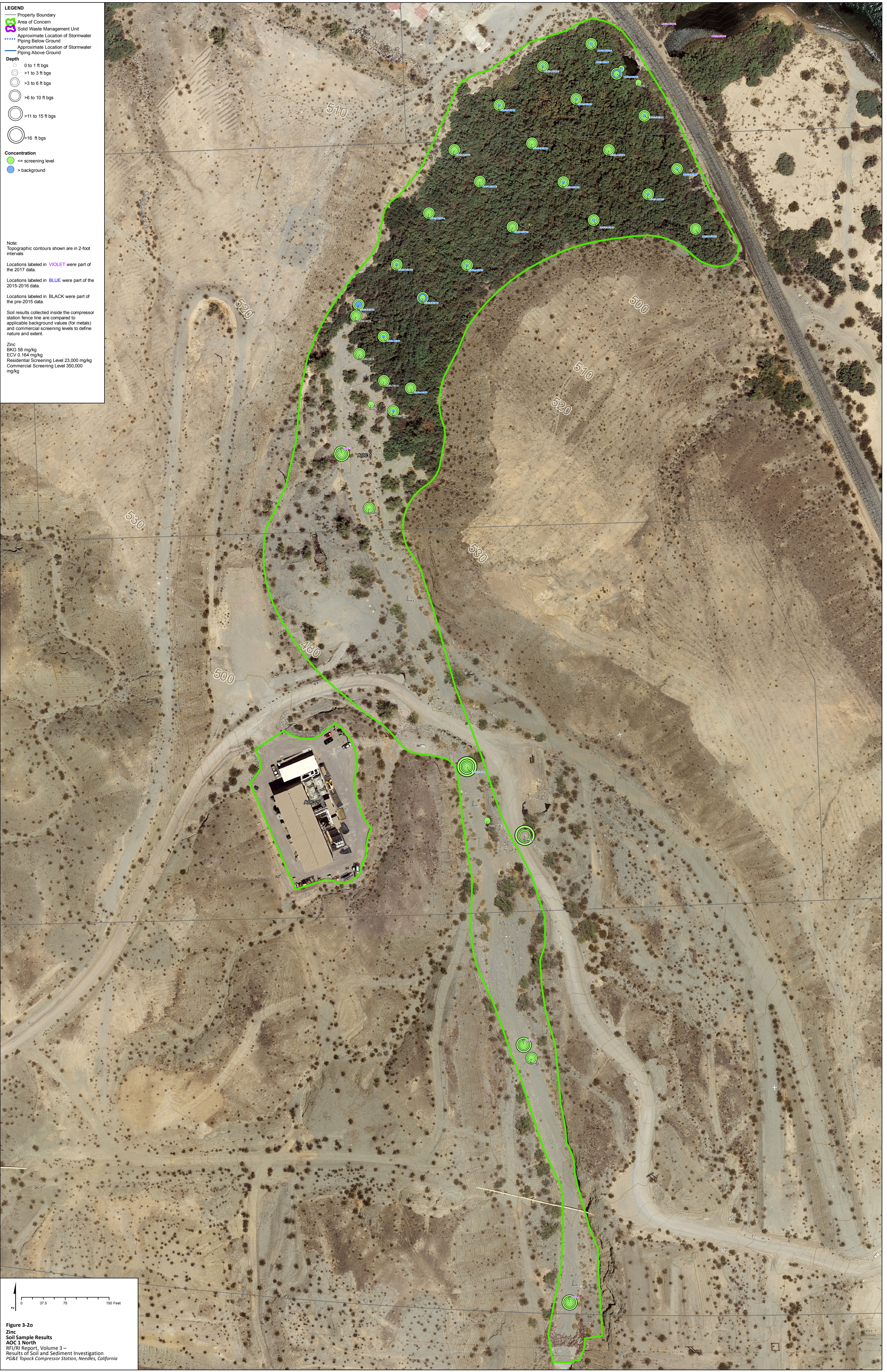


Figure 3-2o  
Zinc  
Soil Sample Results  
AOC 1 North  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
P&E Topack Compressor Station, Needles, California



**LEGEND**

Property Boundary  
Area of Concern  
Solid Waste Management Unit  
Approximate Location of Stormwater  
Piping Below Ground  
Approximate Location of Stormwater  
Piping Above Ground

**Depth**

0 to 1 ft bgs  
>1 to 3 ft bgs  
>3 to 6 ft bgs  
>6 to 10 ft bgs  
>11 to 15 ft bgs  
>16 ft bgs

**Concentration**

Non-detect  
≤ screening level  
> background

Note:  
Topographic contours shown are in 2-foot intervals

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Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Benzo(a)Pyrene Equivalent  
BK&E 55 ug/kg  
Residential Screening Level 110 ug/kg  
Commercial Screening Level 2,100 ug/kg



**Figure 3-2p**  
**Benzo(a)Pyrene Equivalent**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
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PG&E Topack Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- > HHSL to <=10x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

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Locations labeled in **BLUE** were part of the 2015-2016 data.

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Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Aroclor 1254  
Residential Screening Level 240 ug/kg  
Commercial Screening Level 970 ug/kg



**Figure 3-2q**  
**Aroclor 1254**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
P&E Topack Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > ECV to <=10x ECV

Note:  
Topographic contours shown are in 2-foot intervals

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Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total PCBs  
ECV 204 µg/kg  
Residential Screening Level 230 µg/kg  
Commercial Screening Level 940 µg/kg





**LEGEND**

Property Boundary  
Area of Concern  
Solid Waste Management Unit  
Approximate Location of Stormwater  
Piping Below Ground  
Approximate Location of Stormwater  
Piping Above Ground

**Depth**

0 to 1 ft bgs  
>1 to 3 ft bgs  
>3 to 6 ft bgs  
>6 to 10 ft bgs  
>11 to 15 ft bgs  
>16 ft bgs

**Concentration**

Non-detect  
≤ screening level  
> background  
> ECV to ≤10x ECV

Note:  
Topographic contours shown are in 2-foot intervals

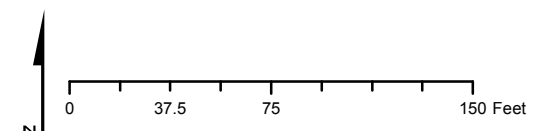
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Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.98 ng/kg  
TEQ Avian Ecological Comparison Value 16 ng/kg



**Figure 3-2s**  
**Avian Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California



**LEGEND**

Property Boundary  
Area of Concern  
Solid Waste Management Unit  
Approximate Location of Stormwater  
Piping Below Ground  
Approximate Location of Stormwater  
Piping Above Ground

**Depth**

0 to 1 ft bgs  
>1 to 3 ft bgs  
>3 to 6 ft bgs  
>6 to 10 ft bgs  
>11 to 15 ft bgs  
>16 ft bgs

**Concentration**

Non-detect  
≤ screening level  
> background  
> HHSL to ≤10x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

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Locations labeled in **BLUE** were part of the 2015-2016 data.

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Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Human Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.58 ng/kg  
Residential Screening Level 50 ng/kg  
Commercial Screening Level 220 ng/kg



**Figure 3-2t**  
**Human Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California



**LEGEND**

Property Boundary  
Area of Concern  
Solid Waste Management Unit  
Approximate Location of Stormwater  
Piping Below Ground  
Approximate Location of Stormwater  
Piping Above Ground

**Depth**

0 to 1 ft bgs  
>1 to 3 ft bgs  
>3 to 6 ft bgs  
>6 to 10 ft bgs  
>11 to 15 ft bgs  
>16 ft bgs

**Concentration**

Non-detect  
≤ screening level  
> background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mammal Dioxins and Furans Toxicity  
Equivalency Quotient (TEQ)  
Background 5.58 ng/kg  
ECV 1.6 ng/kg



**Figure 3-2u**  
**Mammal Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 1 North**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topack Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Antimony  
ECV 0.285 mg/kg  
Residential Screening Level 31 mg/kg  
Commercial Screening Level 470 mg/kg



**Figure 3-3a**  
**Antimony**  
**Soil Sample Results**  
**RFI/RI Report, Volume 3 –**  
**Results of Soil and Sediment Investigation**  
**PC&E Topock Compressor Station, Needles, California**



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > ECV to <=10x ECV

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Arsenic  
BGS 11 mg/kg  
ECV 11.4 mg/kg  
Residential Screening Level 0.11 mg/kg  
Commercial Screening Level 0.36 mg/kg





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

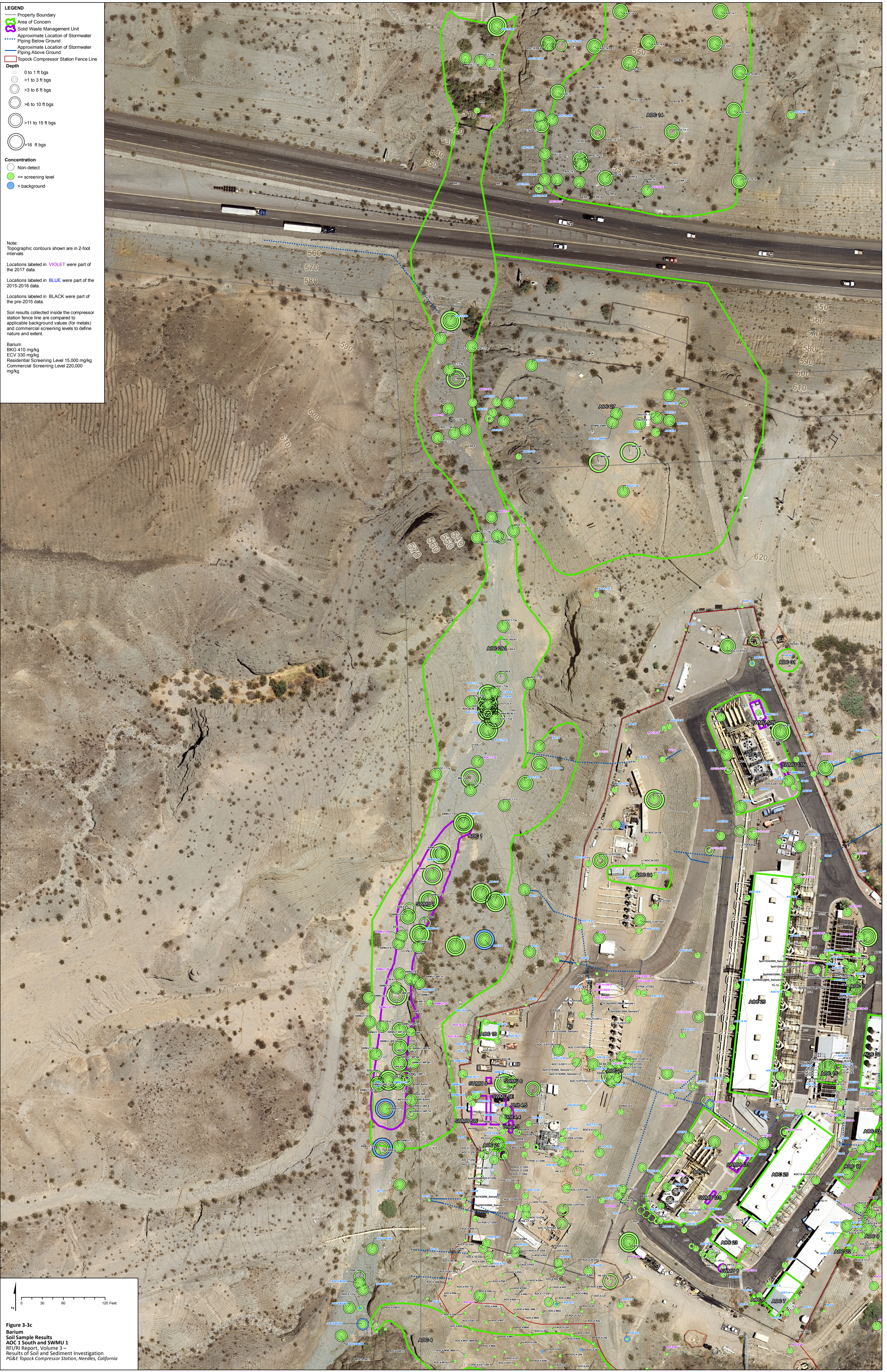
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Barium  
BKC 410 mg/kg  
ECV 330 mg/kg  
Residential Screening Level 15,000 mg/kg  
Commercial Screening Level 220,000 mg/kg



**Figure 3-3c**  
Barium  
Soil Sample Results  
AOC 1 South and SWMU 1  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > HHSL to <=10x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Cadmium  
BKS 1.1 mg/kg  
ECV 0.015 mg/kg  
Residential Screening Level 5.2 mg/kg  
Commercial Screening Level 7.3 mg/kg



Figure 3-3d  
Cadmium  
Soil Sample Results  
AOC 1 South and SWMU 1  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > HHSL to <=10x HHSL
- >10x HHSL to <=100x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Hexavalent Chromium  
BKGS 0.03 mg/kg  
ECV 139.6 mg/kg  
Residential Screening Level 0.3 mg/kg  
Commercial Screening Level 6.3 mg/kg



Figure 3-3e  
Hexavalent Chromium  
Soil Sample Results  
AOC 1 South and SWMU 1  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total Chromium  
BKC 39.6 mg/kg  
ECV 36.3 mg/kg  
Residential Screening Level 36,000 mg/kg  
Commercial Screening Level 170,000 mg/kg



Figure 3-3f  
Total Chromium  
Soil Sample Results  
AOC 1 South and SWMU 1  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > ECV to <=10x ECV

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Cobalt  
BKS 12.7 mg/kg  
ECV 13 mg/kg  
Residential Screening Level 23 mg/kg  
Commercial Screening Level 350 mg/kg



Figure 3-3g  
Cobalt  
Soil Sample Results  
AOC 1 South and SWMU 1  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
P&E Topock Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

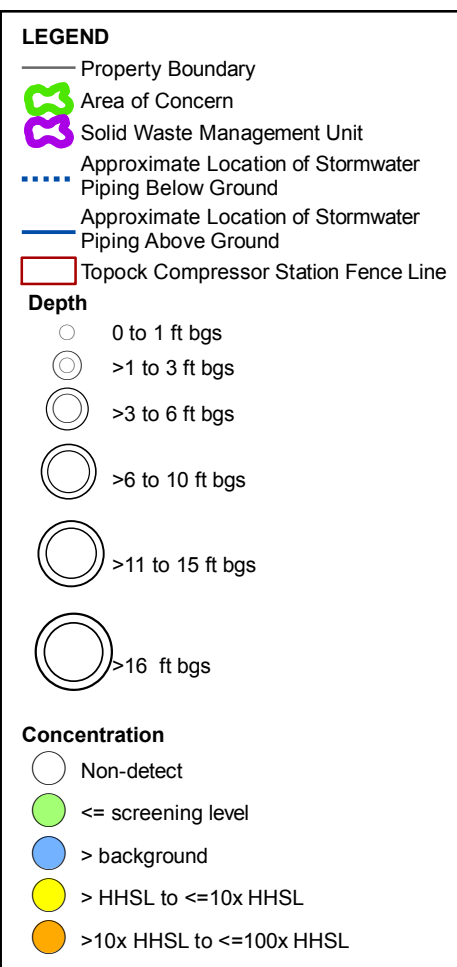
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Copper  
BKC 16.8 mg/kg  
ECV 20.6 mg/kg  
Residential Screening Level 3,100 mg/kg  
Commercial Screening Level 47,000 mg/kg



Figure 3-3h  
Copper  
Soil Sample Results  
AOC 1 South and SWMU 1  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California





Note:  
Topographic contours shown are in 2-foot intervals

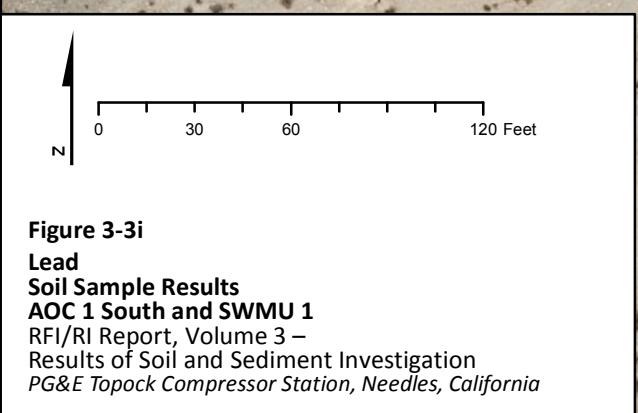
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Lead  
BKG 8.39 mg/kg  
ECV 0.0166 mg/kg  
Residential Screening Level 80 mg/kg  
Commercial Screening Level 320 mg/kg





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV
- > HHSL to <=10x HHSL
- >10x HHSL to <=100x HHSL
- >100x HHSL or ECV

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mercury  
ECV 0.0125 mg/kg  
Residential Screening Level 1 mg/kg  
Commercial Screening Level 4.5 mg/kg





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Molybdenum  
BKS 1.37 mg/kg  
ECV 2.25 mg/kg  
Residential Screening Level 390 mg/kg  
Commercial Screening Level 5,800 mg/kg

**Figure 3-3k**  
**Molybdenum**  
**Soil Sample Results**  
**AOC 1 South and SWMU 1**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California





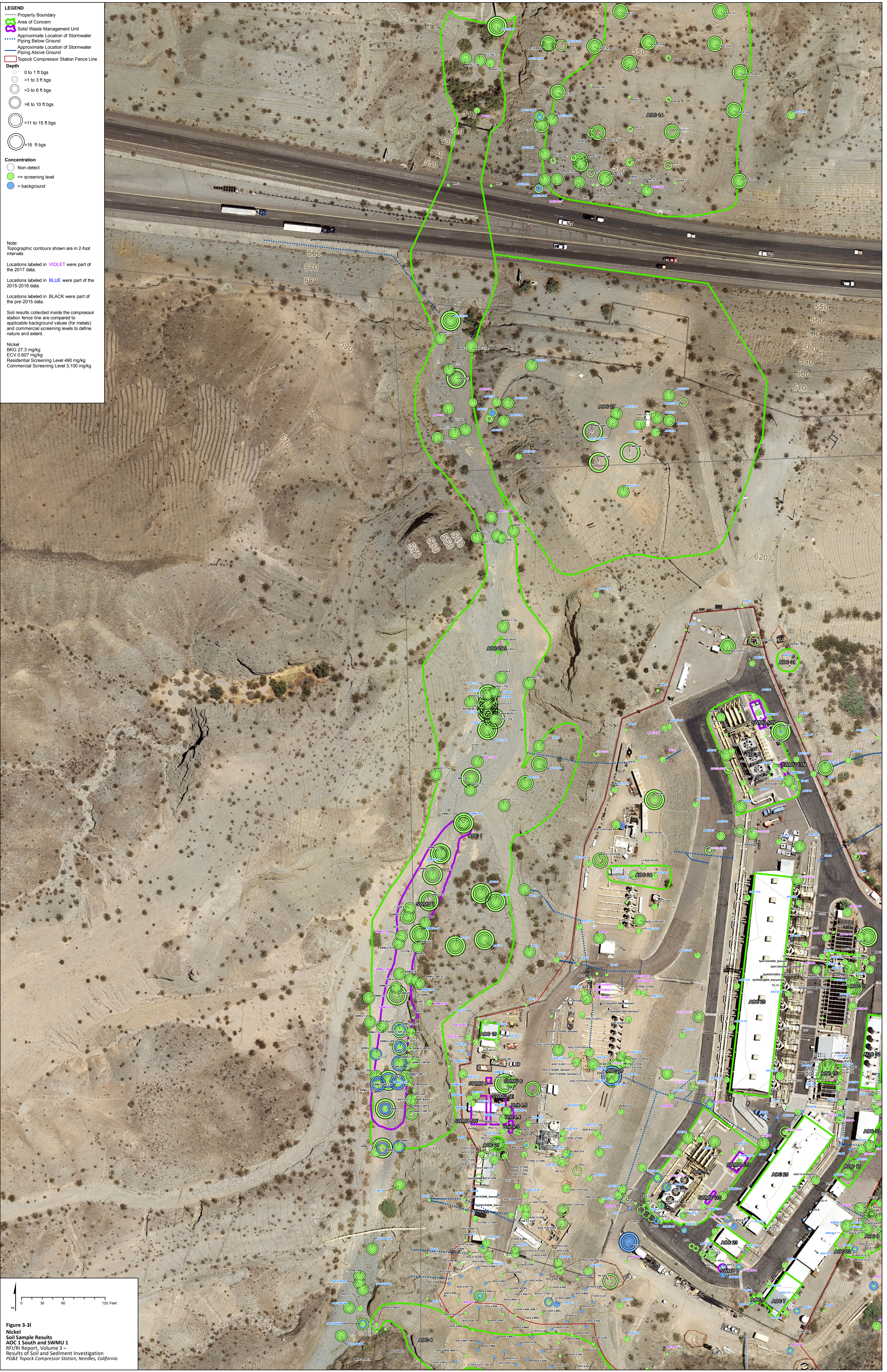
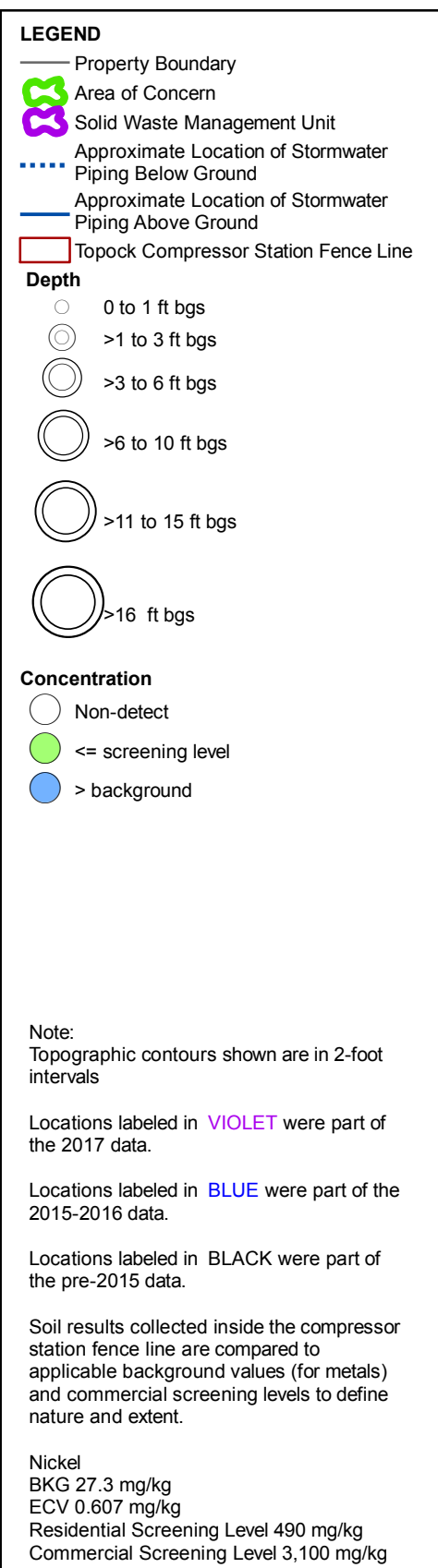


Figure 3-31  
Nickel  
Soil Sample Results  
AOC 1 South and SWMU 1  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- > ECV to <=10x ECV
- > HHSL to <=10x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Thallium  
ECV 2.32 mg/kg  
Residential Screening Level 0.78 mg/kg  
Commercial Screening Level 12 mg/kg



**Figure 3-3m**  
**Thallium**  
**Soil Sample Results**  
**AOC 1 South and SWMU 1**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

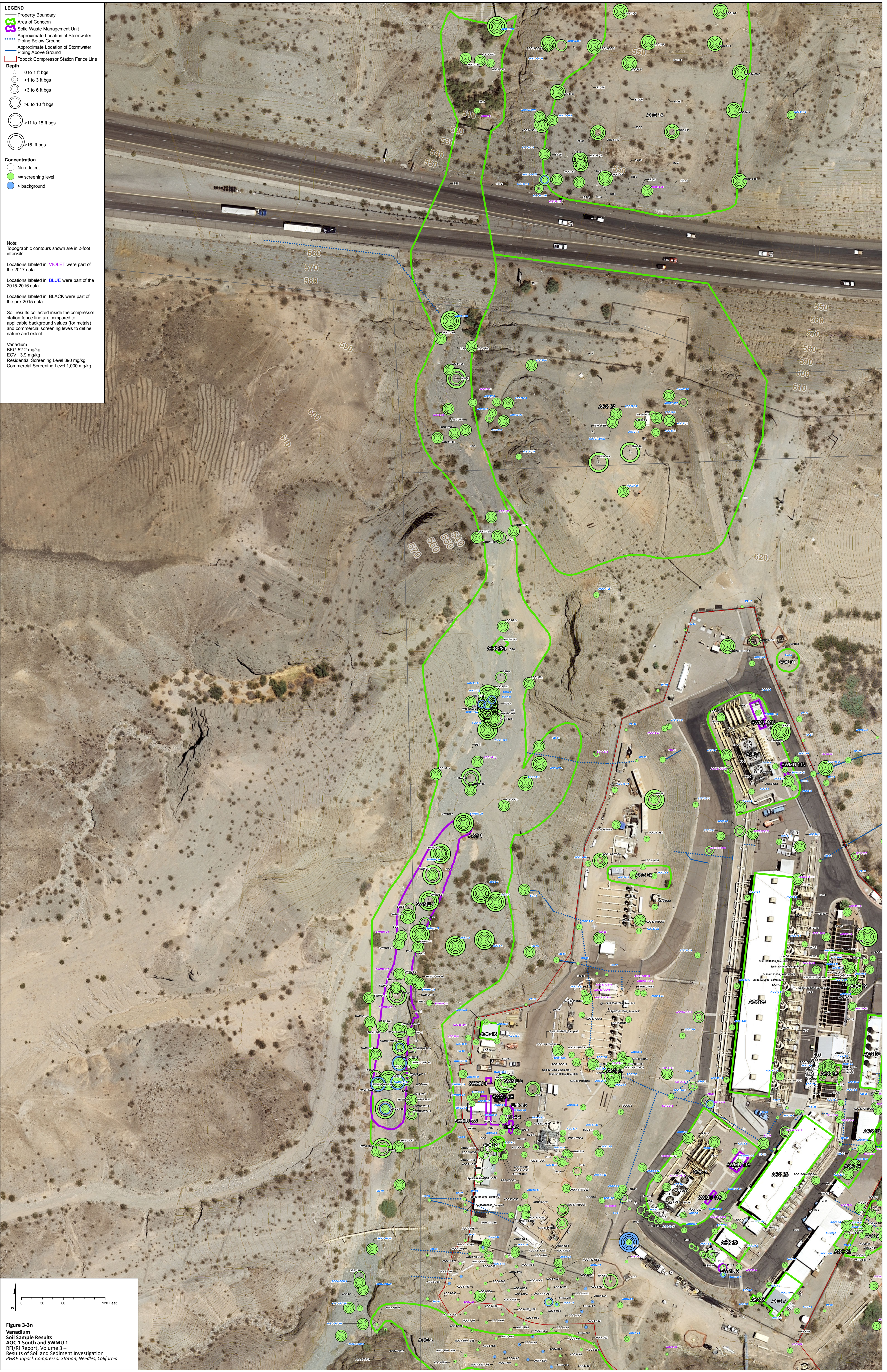
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Vanadium  
BKG 52.2 mg/kg  
ECV 13.9 mg/kg  
Residential Screening Level 390 mg/kg  
Commercial Screening Level 1,000 mg/kg



**Figure 3-3n**  
**Vanadium**  
**Soil Sample Results**  
**AOC 1 South and SWMU 1**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California



**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater
- Piping Below Ground
- Approximate Location of Stormwater
- Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Zinc  
BKG 58 mg/kg  
ECV 0.164 mg/kg  
Residential Screening Level 23,000 mg/kg  
Commercial Screening Level 350,000 mg/kg



Figure 3-30  
Zinc  
Soil Sample Results  
AOC 1 South and SWMU 1  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California





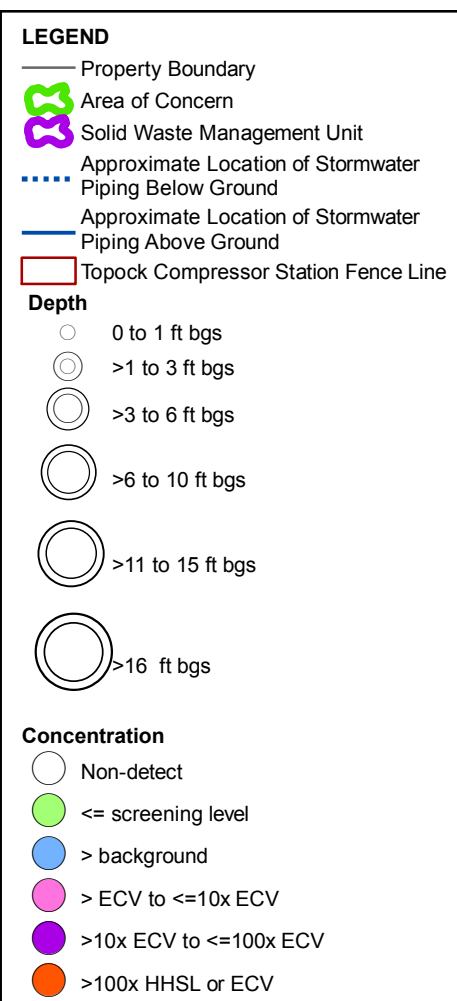












Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

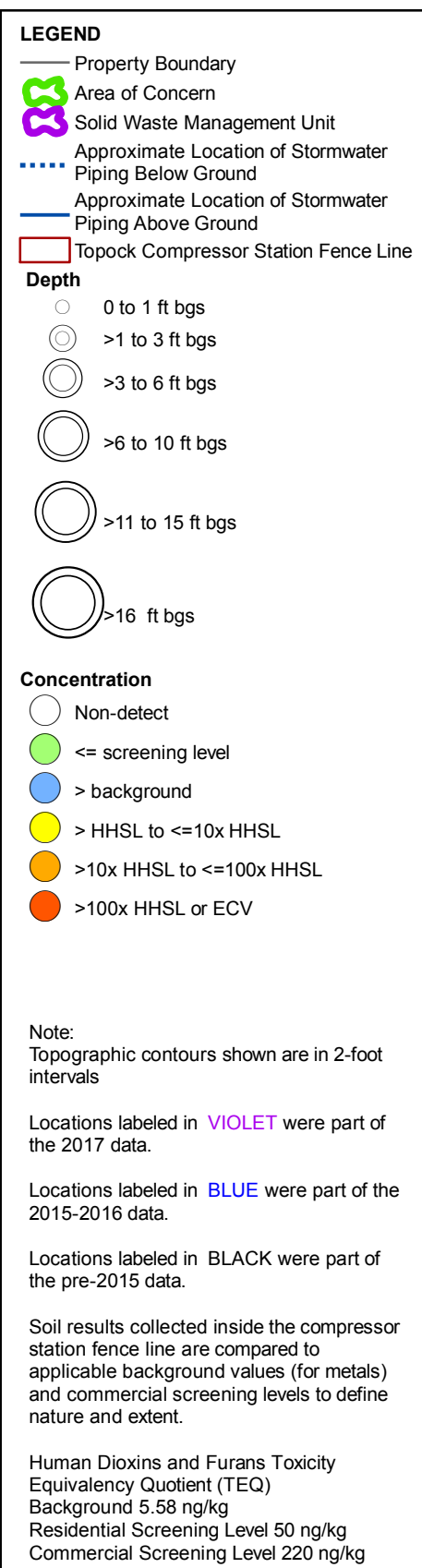
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.98 ng/kg  
TEQ Avian Ecological Comparison Value 16 ng/kg



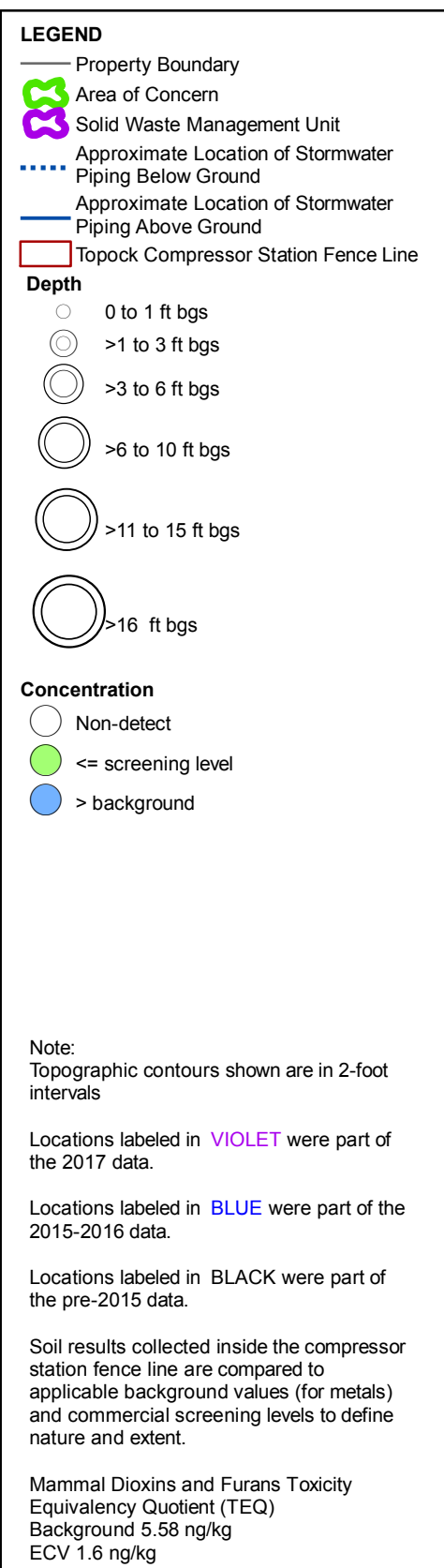
**Figure 3-3s**  
**Avian Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 1 South and SWMU 1**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California





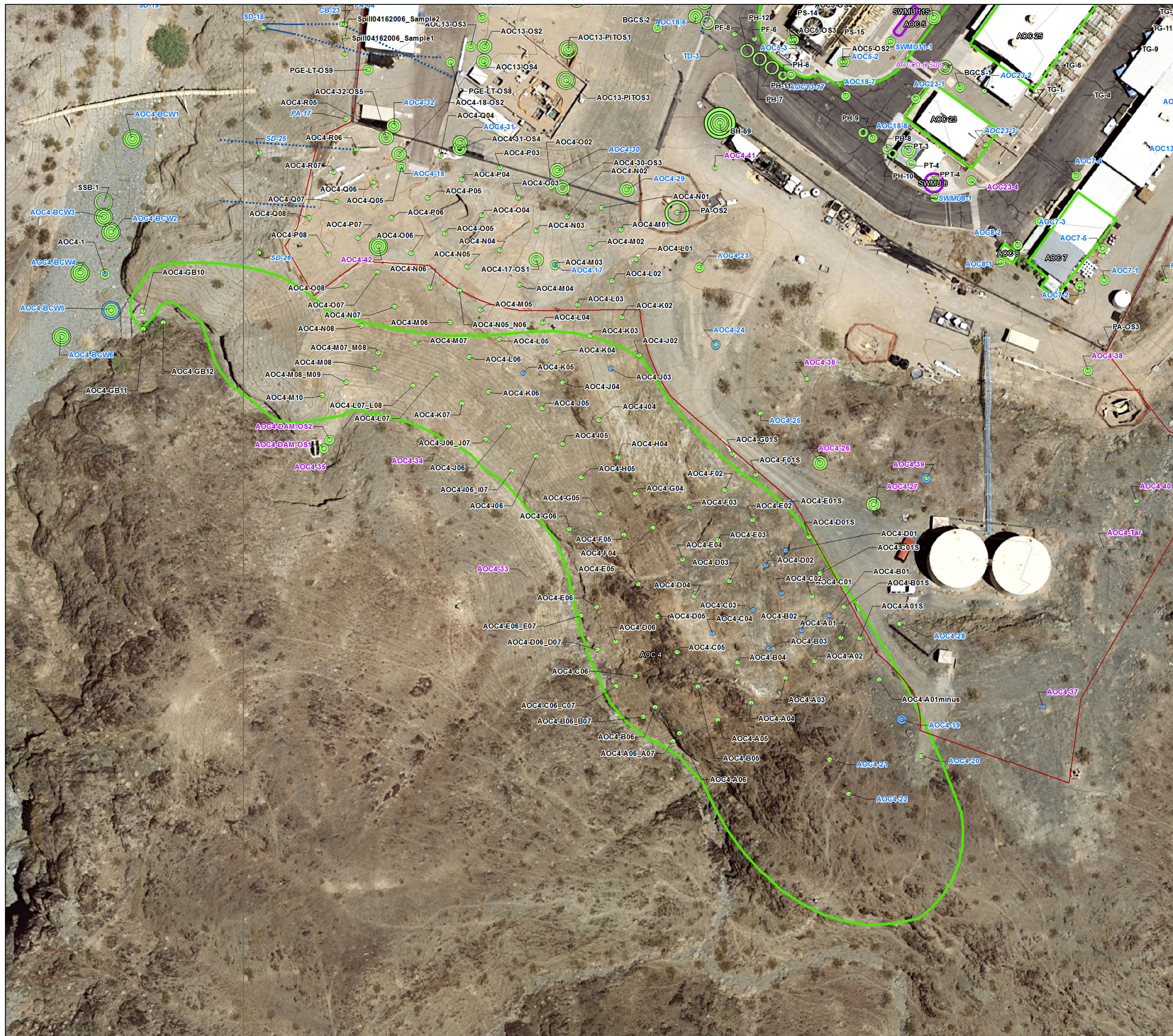
**Figure 3-3t**  
**Human Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 1 South and SWMU 1**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California





**Figure 3-3u**  
**Mammal Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 1 South and SWMU 1**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PC&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

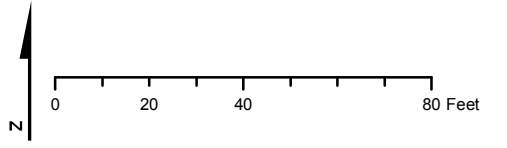
Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Barium  
BKG 410 mg/kg  
ECV 330 mg/kg  
Residential Screening Level 15,000 mg/kg  
Commercial Screening Level 220,000 mg/kg

The Ecological Comparison Value (330 mg/kg) is below the background value; therefore, the screening level is set at the background value.



**Figure 3-4a**  
**Barium**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

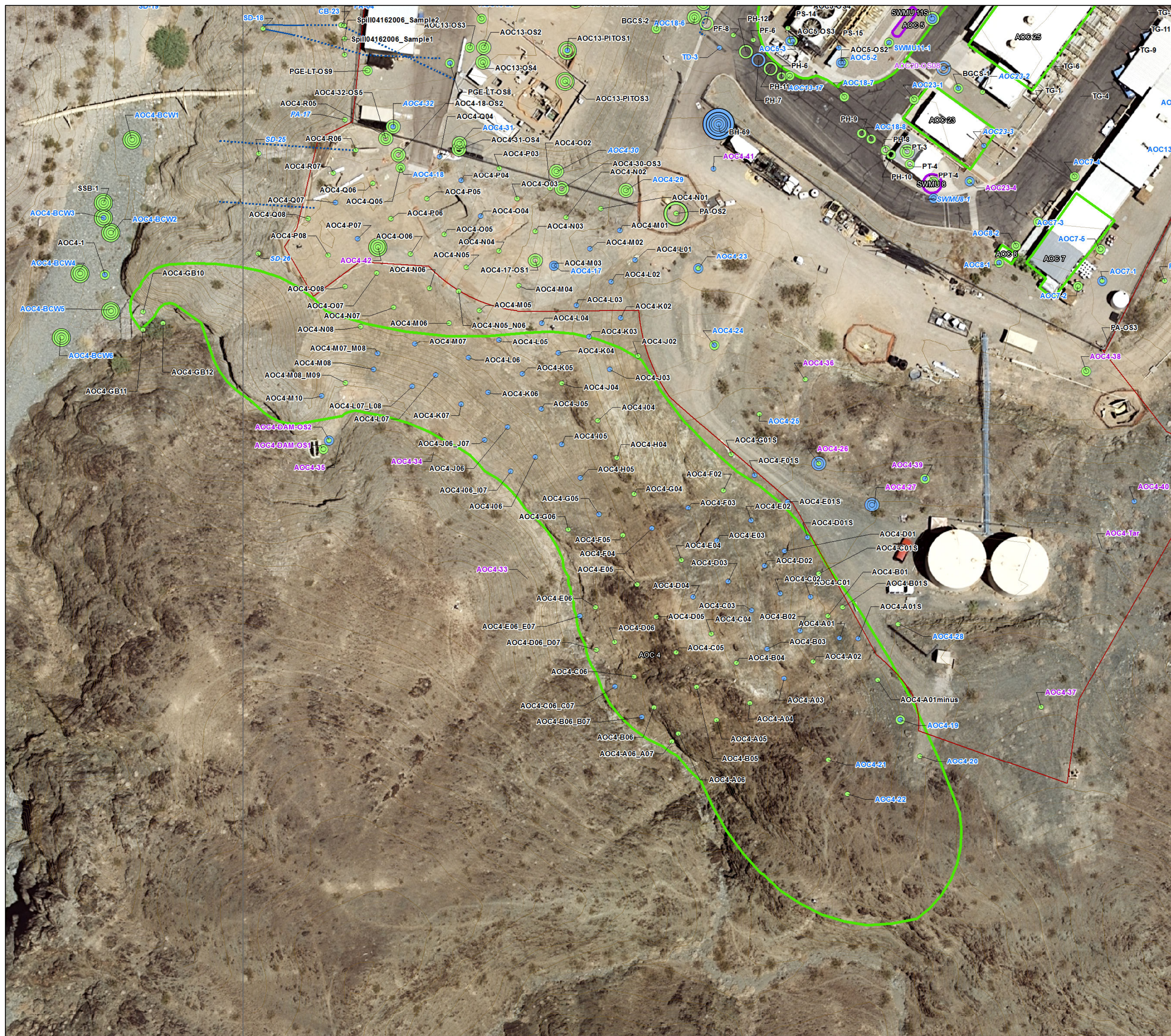
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Cadmium  
BKG 1.1 mg/kg  
ECV 0.015 mg/kg  
Residential Screening Level 5.2 mg/kg  
Commercial Screening Level 7.3 mg/kg

The Ecological Comparison Value (0.015 mg/kg) is below the background value; therefore, the screening level is set at the background value.

**Figure 3-4b**  
**Cadmium**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

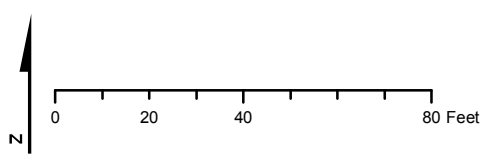
Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total Chromium  
BKG 39.8 mg/kg  
ECV 36.3 mg/kg  
Residential Screening Level 36,000 mg/kg  
Commercial Screening Level 170,000 mg/kg

The Ecological Comparison Value (36.3 mg/kg) is below the background value; therefore, the screening level is set at the background value.

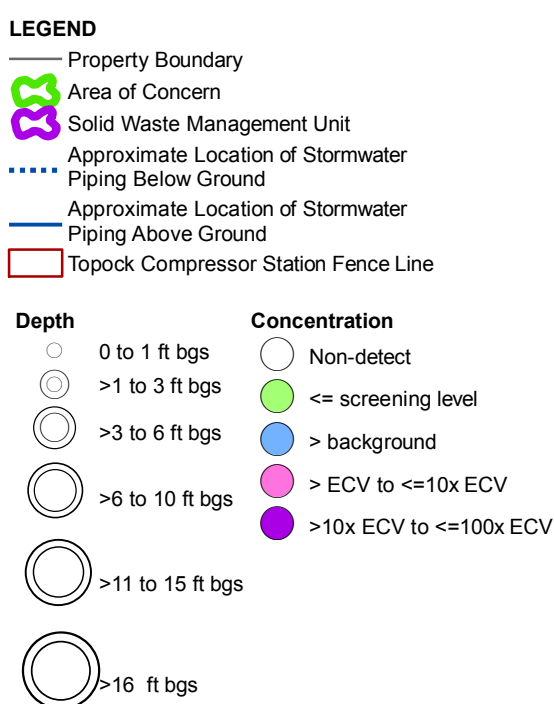


**Figure 3-4c**  
**Total Chromium**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California









Note:  
Topographic contours shown are in 2-foot intervals

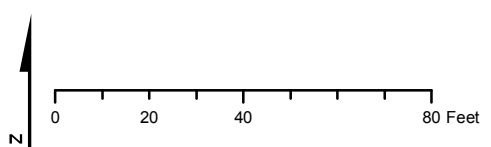
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Copper  
BKG 16.8 mg/kg  
ECV 20.6 mg/kg  
Residential Screening Level 3,100 mg/kg  
Commercial Screening Level 47,000 mg/kg



**Figure 3-4e**  
**Copper**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California

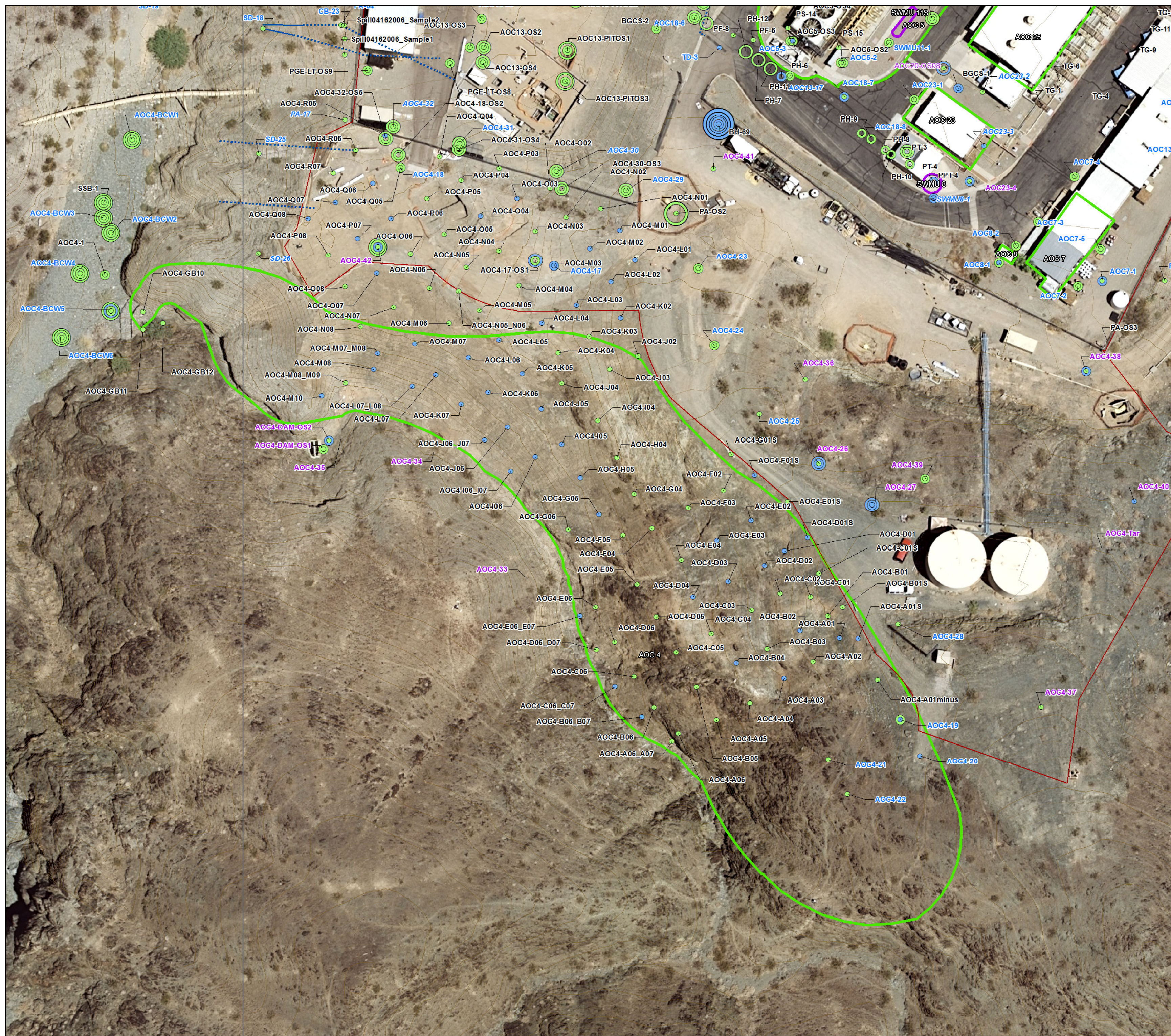












**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

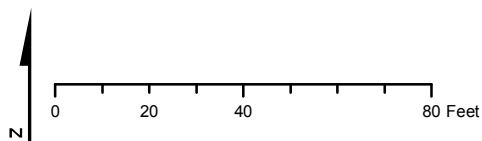
Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

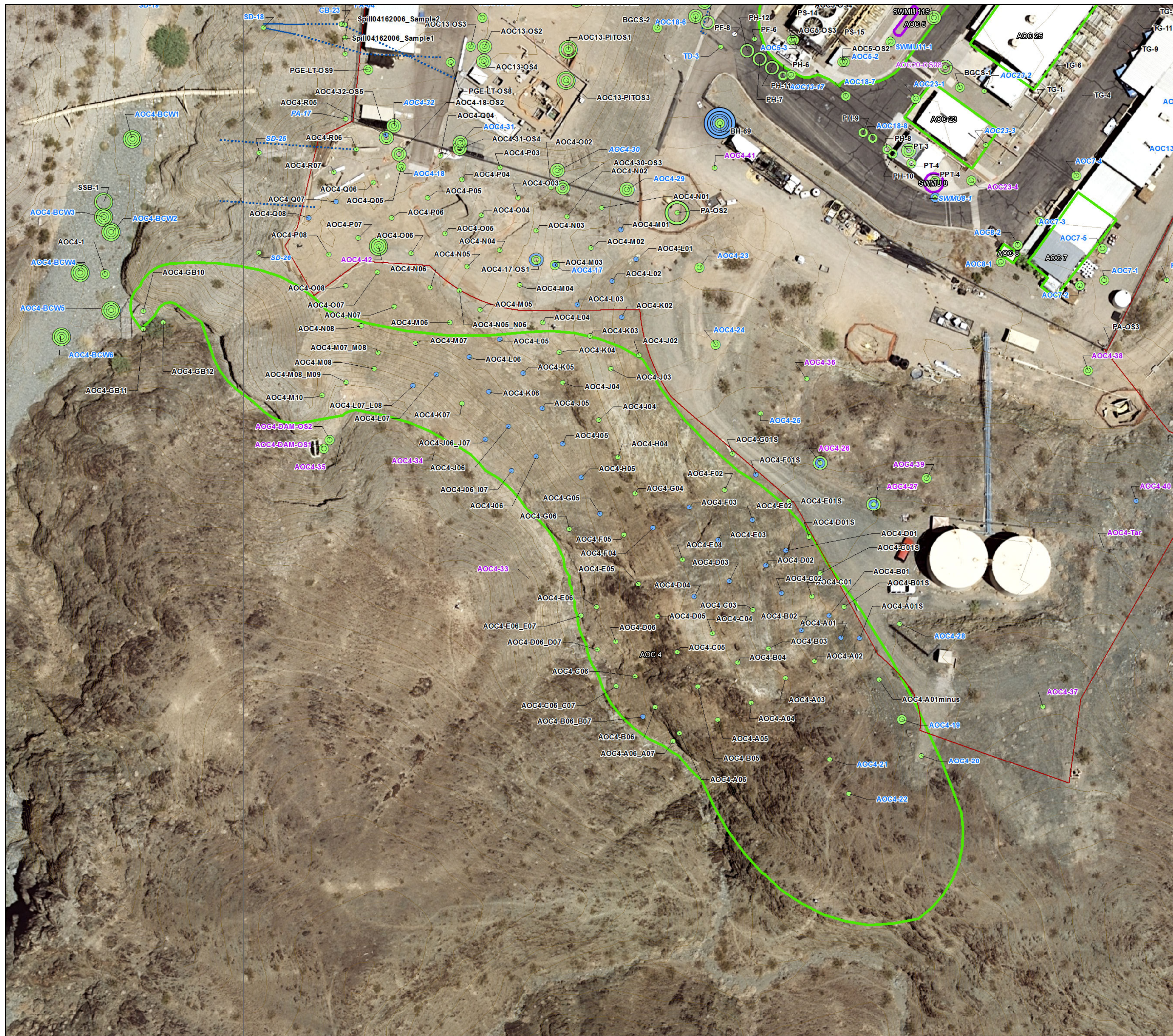
Nickel  
BKG 27.3 mg/kg  
ECV 0.607 mg/kg  
Residential Screening Level 490 mg/kg  
Commercial Screening Level 3,100 mg/kg

The Ecological Comparison Value (0.607 mg/kg) is below the background value; therefore, the screening level is set at the background value.



**Figure 3-4h**  
**Nickel**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

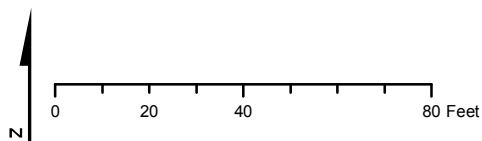
Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

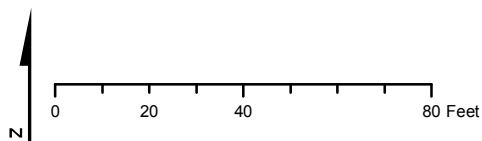
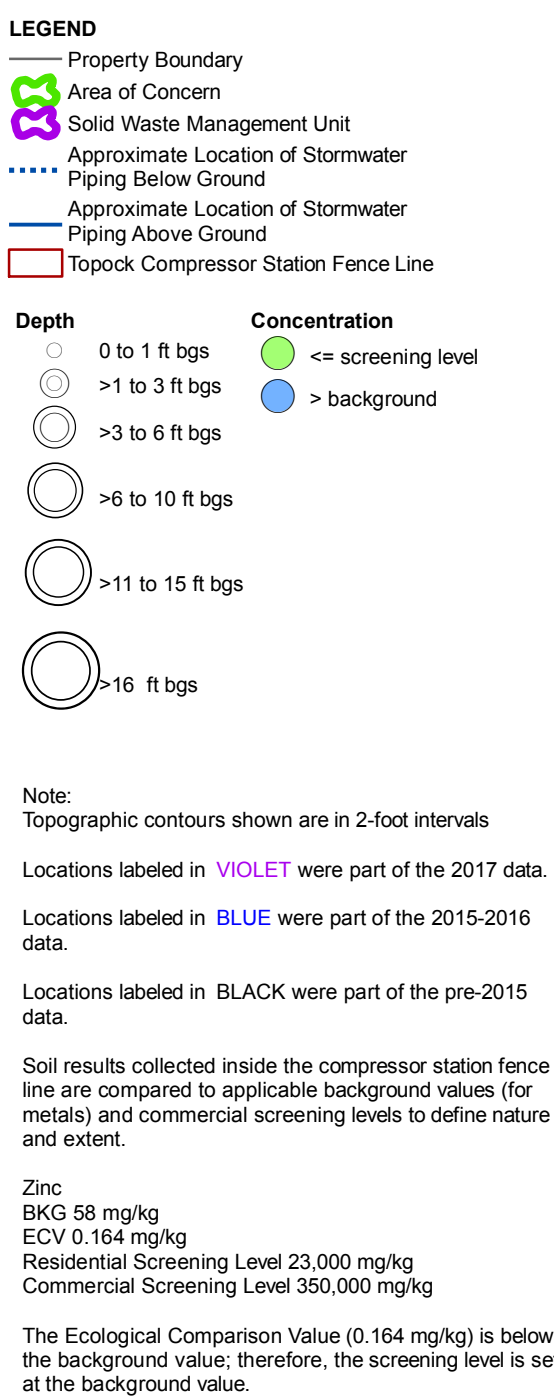
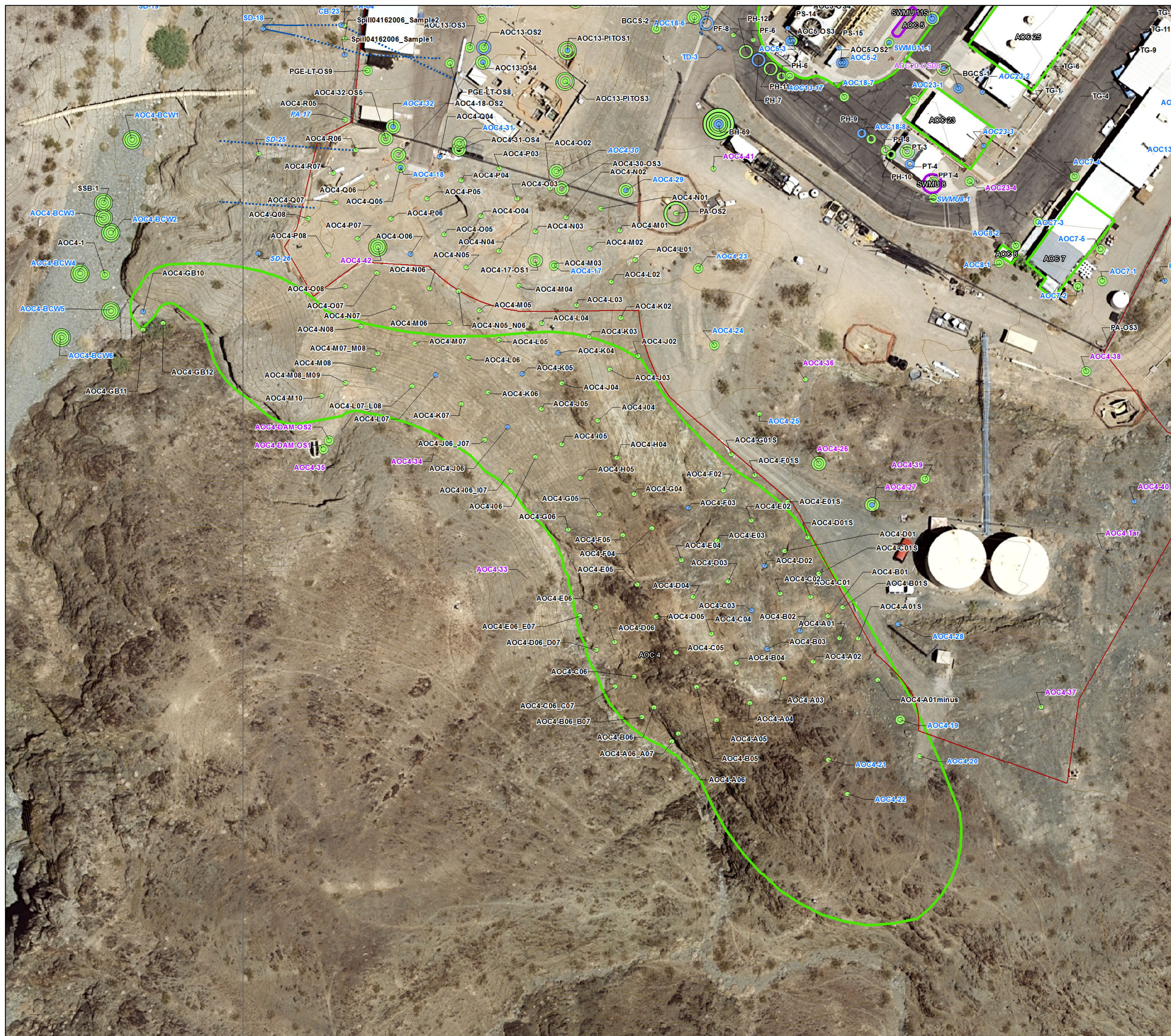
Vanadium  
BKG 52.2 mg/kg  
ECV 13.9 mg/kg  
Residential Screening Level 390 mg/kg  
Commercial Screening Level 1,000 mg/kg

The Ecological Comparison Value (13.9 mg/kg) is below the background value; therefore, the screening level is set at the background value.



**Figure 3-4i**  
**Vanadium**  
**Soil Sample Results**  
**AOC 4**  
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PG&E Topock Compressor Station, Needles, California





**Figure 3-4j**  
**Zinc**  
**Soil Sample Results**  
**AOC 4**  
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PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

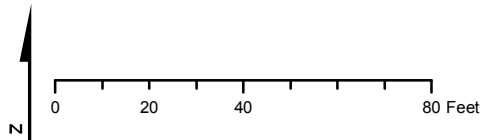
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Iron  
Background 29,303  
Residential Screening Level 55,000 mg/kg  
Commercial Screening Level 820,000 ug/kg



**Figure 3-4I**  
**Iron**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Manganese  
BKG 402 mg/kg  
ECV 220 mg/kg  
Residential Screening Level 1,800 mg/kg  
Commercial Screening Level 6,900 mg/kg

The Ecological Comparison Value (220 mg/kg) is below the background value; therefore, the screening level is set at the background value.

**Figure 3-4n**  
**Manganese**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California





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- Property Boundary
- Area of Concern
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- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > HHSL to <=10x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

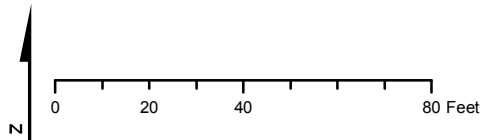
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Benzo(a)Pyrene Equivalent  
BK 55 ug/kg  
Residential Screening Level 110 ug/kg  
Commercial Screening Level 2,100 ug/kg

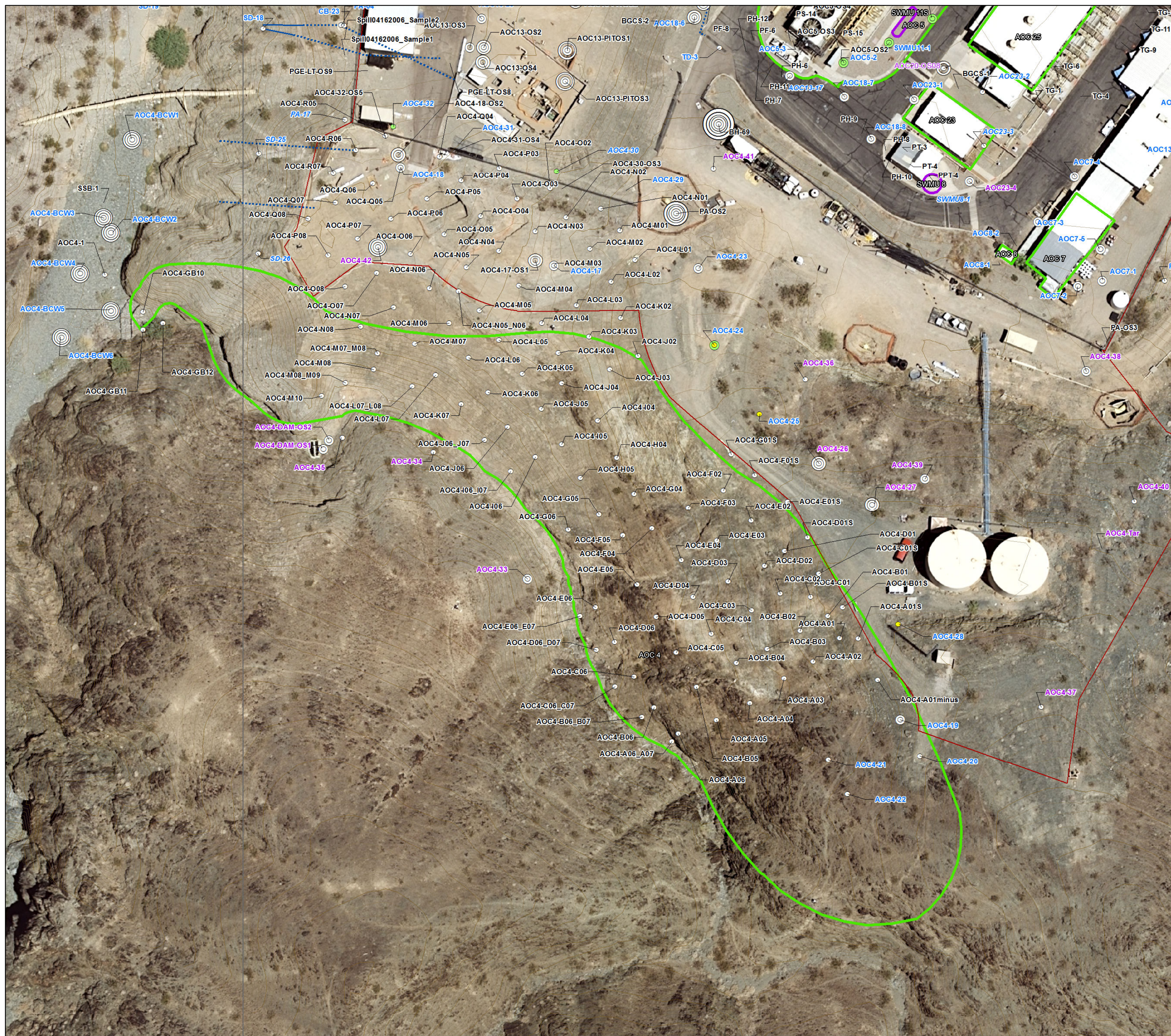


**Figure 3-4o**  
**Benzo(a)Pyrene Equivalent**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > HHSL to <=10x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

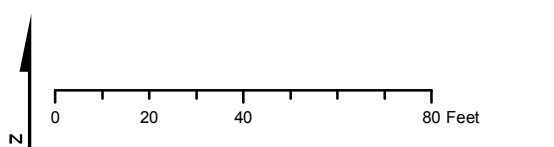
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Aroclor 1248  
Residential Screening Level 230 ug/kg  
Commercial Screening Level 950 ug/kg



**Figure 3-4q**  
**Aroclor 1248**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California













**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV

Note:  
Topographic contours shown are in 2-foot intervals

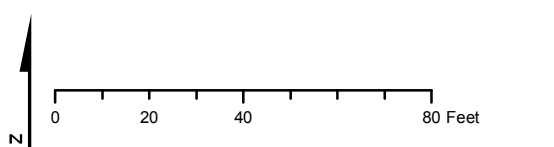
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total PCBs  
ECV 204 ug/kg  
Residential Screening Level 230 ug/kg  
Commercial Screening Level 940 ug/kg



**Figure 3-4t**  
**Total PCBs**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > HHSL to <=10x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

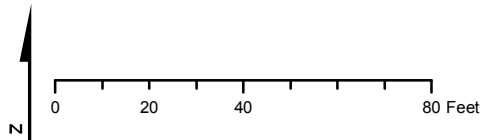
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Human Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.58 ng/kg  
Residential Screening Level 50 ng/kg  
Commercial Screening Level 220 ng/kg



**Figure 3-4v**  
**Human Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 4**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	Non-detect
>1 to 3 ft bgs	<= screening level
>3 to 6 ft bgs	> background
>6 to 10 ft bgs	> HHSL to <=10x HHSL
>10 to 15 ft bgs	
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

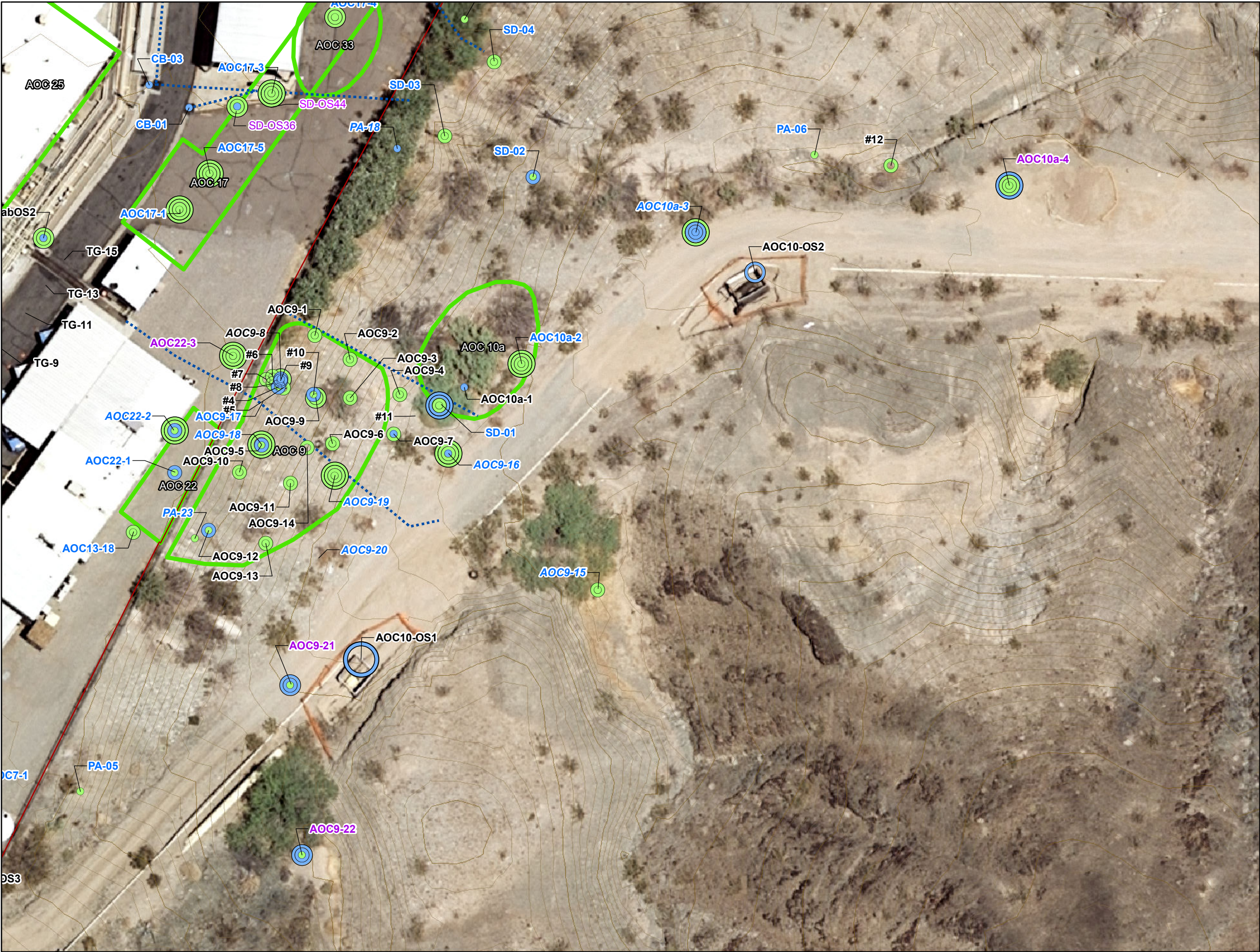
Hexavalent Chromium  
BKG 0.83 mg/kg  
ECV 139.6 mg/kg  
Residential Screening Level 0.3 mg/kg  
Commercial Screening Level 6.3 mg/kg

Residential Human Health Screening level (0.3 mg/Kg) is below background value; therefore, the screening level is set at the background value.

0 15 30 60 Feet

**Figure 3-5a**  
**Hexavalent Chromium**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

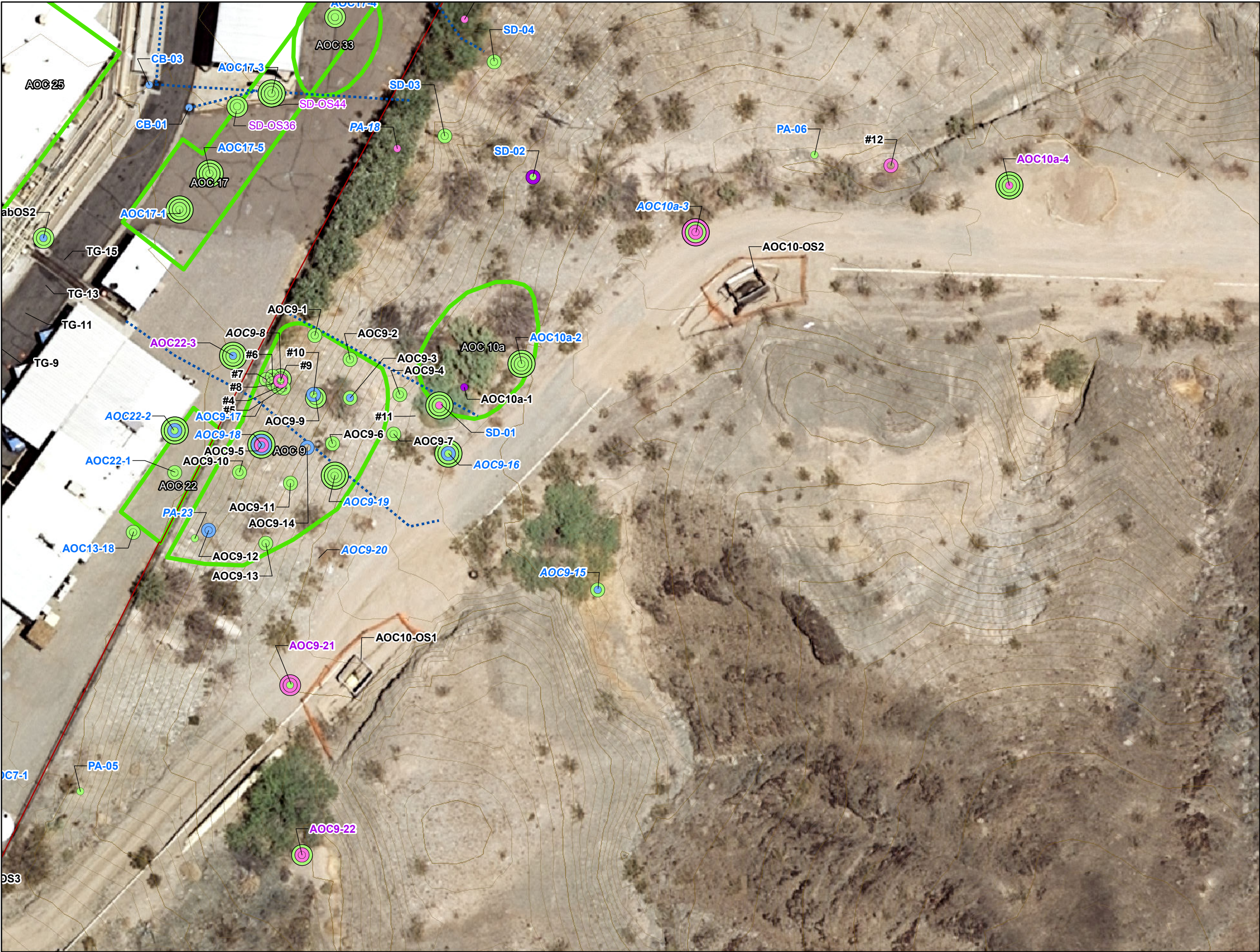
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total Chromium  
BKG 39.8 mg/kg  
ECV 36.3 mg/kg  
Residential Screening Level 36,000 mg/kg  
Commercial Screening Level 170,000 mg/kg

The Ecological Comparison Value (36.3 mg/kg) is below the background value; therefore, the screening level is set at the background value.

**Figure 3-5b**  
**Total Chromium**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	<= screening level
>1 to 3 ft bgs	> background
>3 to 6 ft bgs	> ECV to <=10x ECV
>6 to 10 ft bgs	>10x ECV to <=100x ECV
>10 to 15 ft bgs	
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

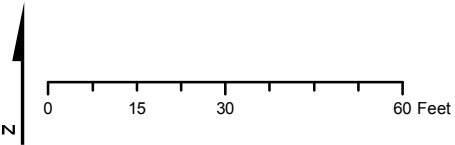
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

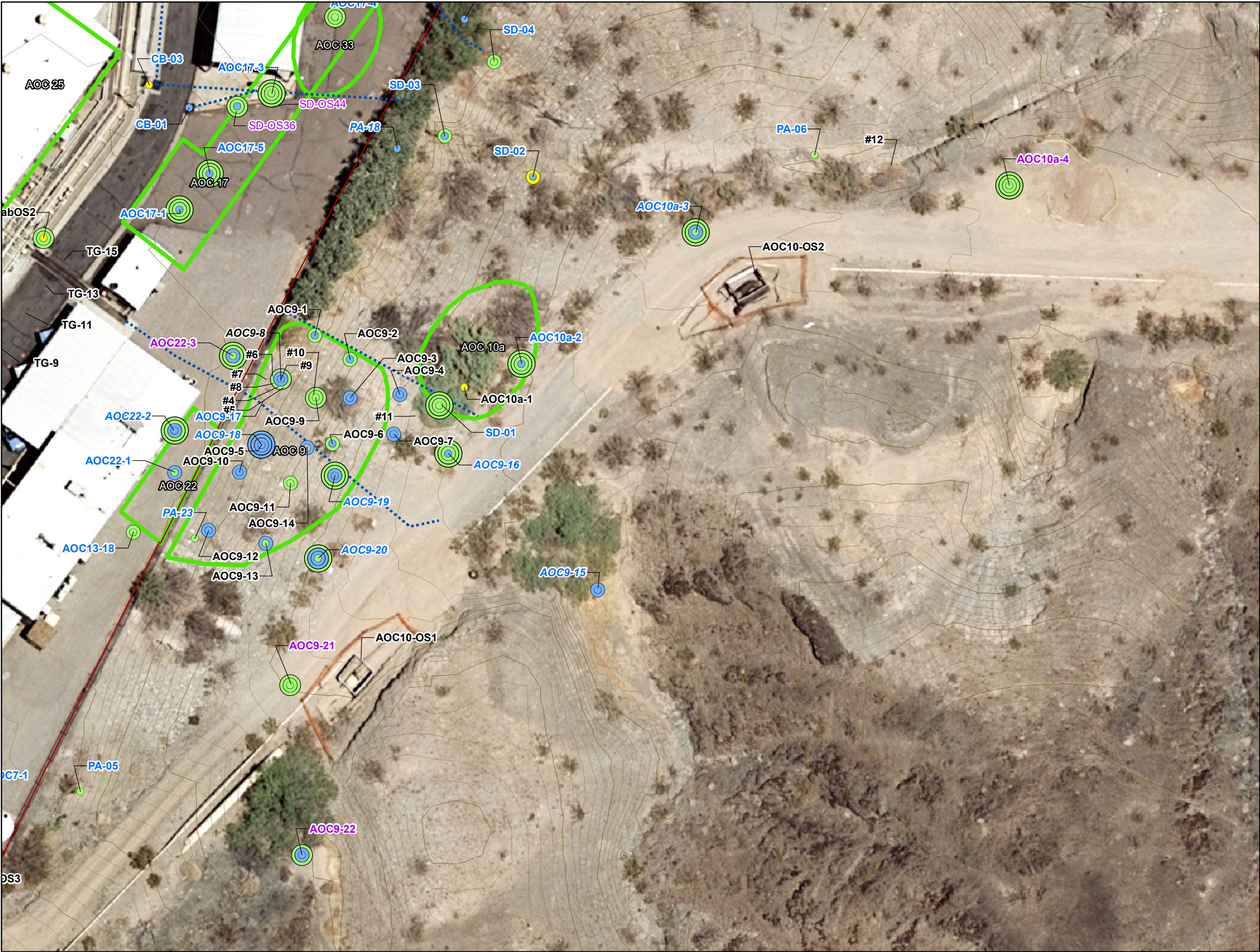
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Copper  
BKG 16.8 mg/kg  
ECV 20.6 mg/kg  
Residential Screening Level 3,100 mg/kg  
Commercial Screening Level 47,000 mg/kg



**Figure 3-5c**  
**Copper**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	<= screening level
>1 to 3 ft bgs	> background
>3 to 6 ft bgs	> HHSL to <=10x HHSL
>6 to 10 ft bgs	
>10 to 15 ft bgs	
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Lead  
BKG 8.39 mg/kg  
ECV 0.0166 mg/kg  
Residential Screening Level 80 mg/kg  
Commercial Screening Level 320 mg/kg

The Ecological Comparison Value (0.0166 mg/kg) is below the background value; therefore, the screening level is set at the background value.

0 15 30 60 Feet

**Figure 3-5d**  
**Lead**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	Non-detect
>1 to 3 ft bgs	> ECV to <=10x ECV
>3 to 6 ft bgs	>10x ECV to <=100x ECV
>6 to 10 ft bgs	> HHSI to <=10x HHSI
>10 to 15 ft bgs	
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

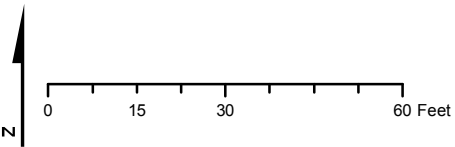
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

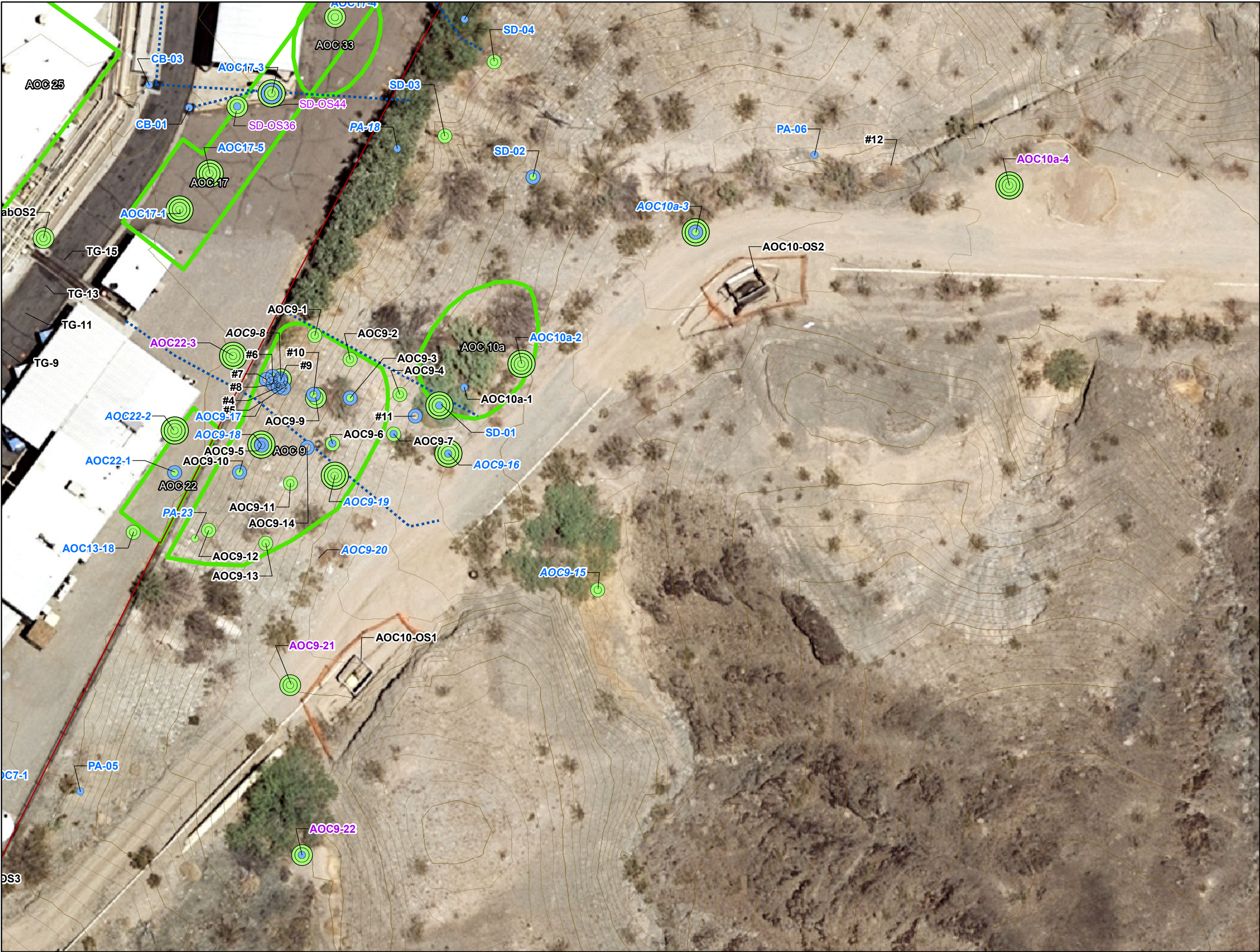
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mercury  
ECV 0.0125 mg/kg  
Residential Screening Level 1 mg/kg  
Commercial Screening Level 4.5 mg/kg



**Figure 3-5e**  
**Mercury**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

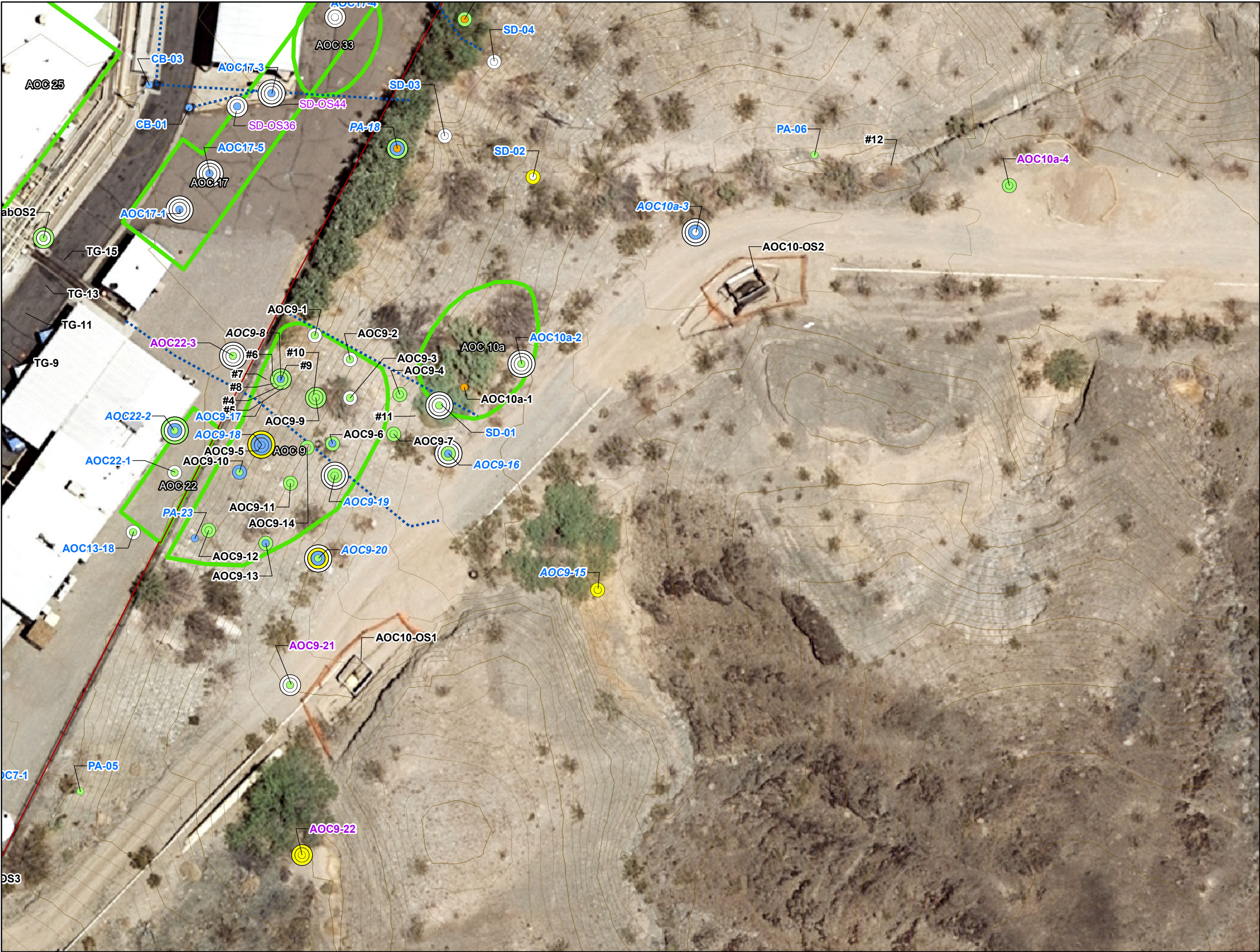
Zinc  
BKG 58 mg/kg  
ECV 0.164 mg/kg  
Residential Screening Level 23,000 mg/kg  
Commercial Screening Level 350,000 mg/kg

The Ecological Comparison Value (0.164 mg/kg) is below the background value; therefore, the screening level is set at the background value.

0 15 30 60 Feet

**Figure 3-5f**  
**Zinc**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	Non-detect
>1 to 3 ft bgs	<= screening level
>3 to 6 ft bgs	> background
>6 to 10 ft bgs	> HHSL to <=10x HHSL
>10 to 15 ft bgs	>10x HHSL to <=100x HHSL
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

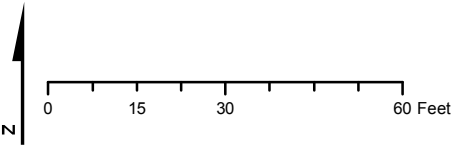
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

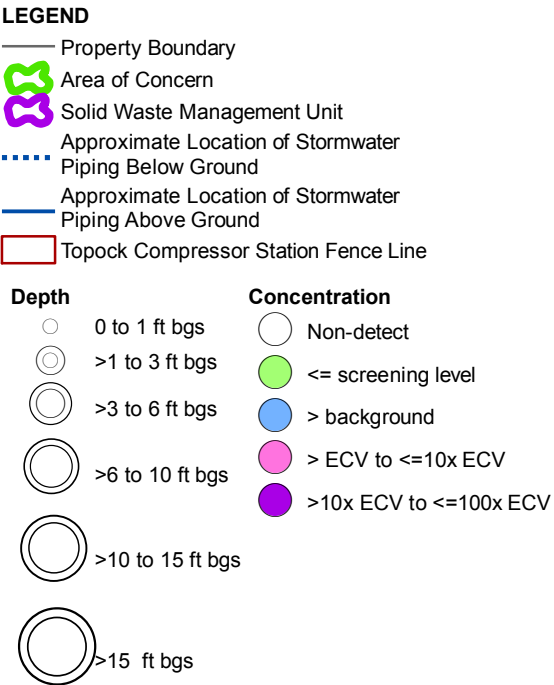
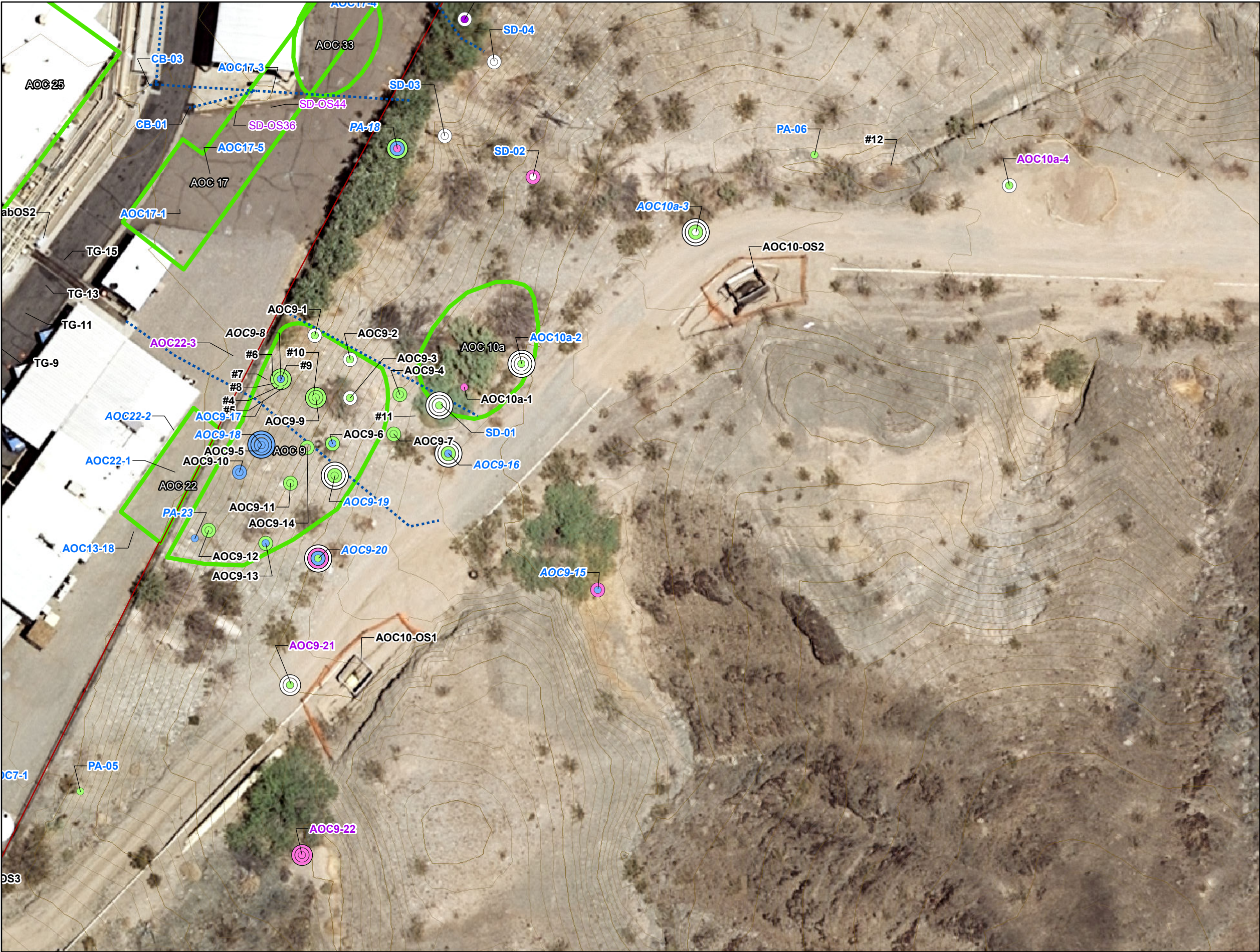
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Benzo(a)Pyrene Equivalent  
BKG 55 ug/kg  
Residential Screening Level 110 ug/kg  
Commercial Screening Level 2,100 ug/kg



**Figure 3-5g**  
**Benzo(a)Pyrene Equivalent**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

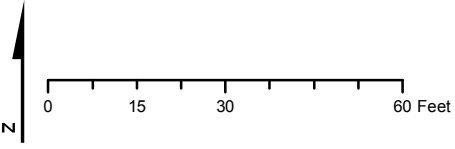
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

PAH High molecular weight  
ECV 1,160 ug/kg



**Figure 3-5h**  
**PAH High molecular weight**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	Non-detect
>1 to 3 ft bgs	<= screening level
>3 to 6 ft bgs	> HHSL to <=10x HHSL
>6 to 10 ft bgs	
>10 to 15 ft bgs	
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

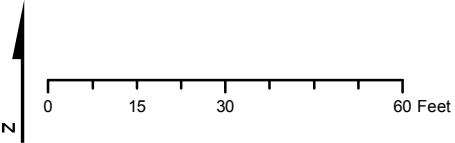
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Aroclor 1254  
Residential Screening Level 240 ug/kg  
Commercial Screening Level 970 ug/kg



**Figure 3-5i**  
**Aroclor 1254**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	Non-detect
>1 to 3 ft bgs	<= screening level
>3 to 6 ft bgs	> HHSL to <=10x HHSL
>6 to 10 ft bgs	
>10 to 15 ft bgs	
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

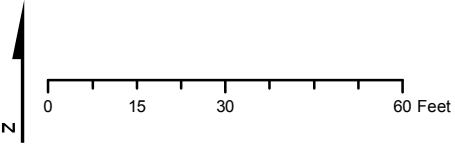
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

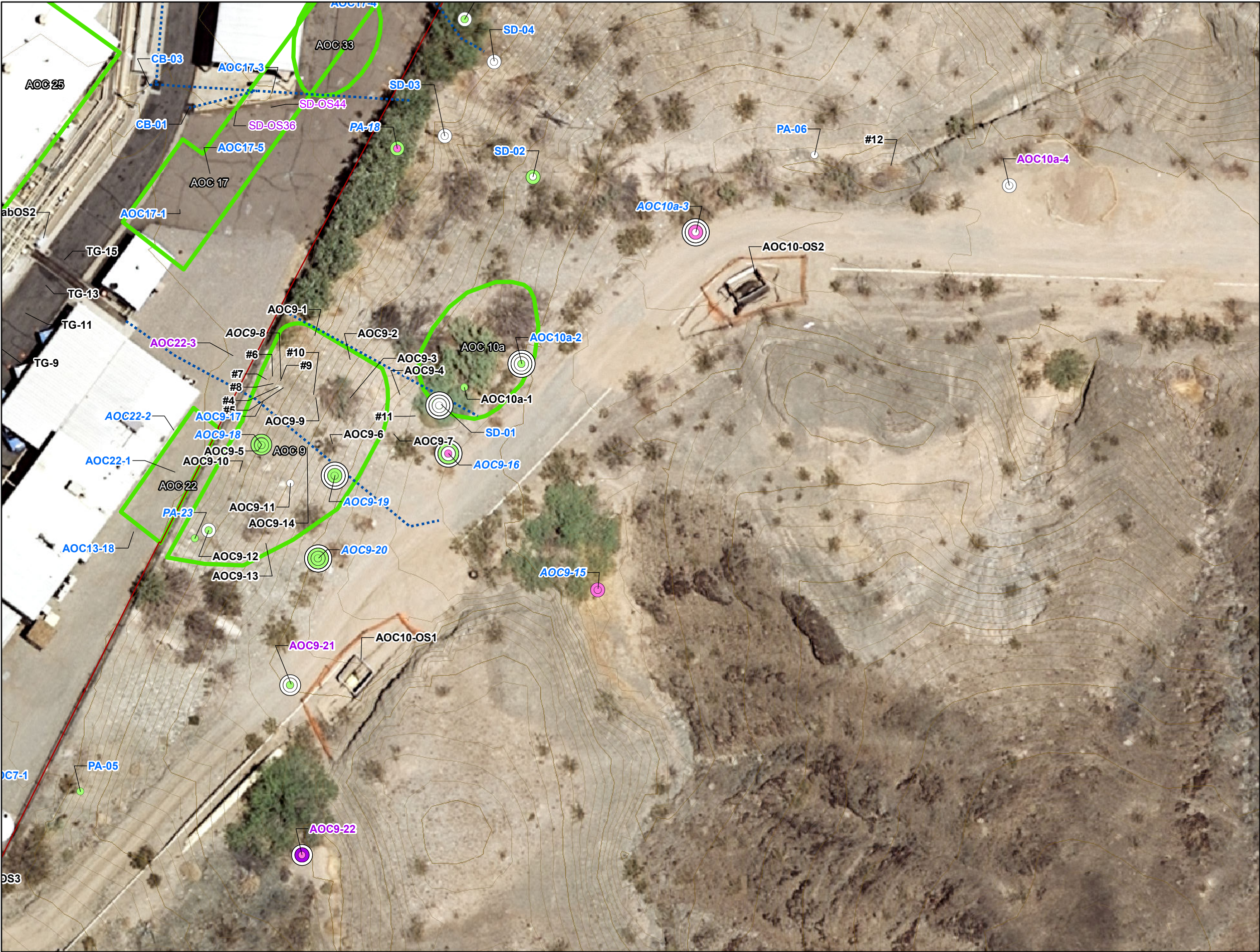
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Aroclor 1260  
Residential Screening Level 240 ug/kg  
Commercial Screening Level 990 ug/kg



**Figure 3-5j**  
**Aroclor 1260**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	Non-detect
>1 to 3 ft bgs	<= screening level
>3 to 6 ft bgs	> ECV to <=10x ECV
>6 to 10 ft bgs	>10x ECV to <=100x ECV
>10 to 15 ft bgs	
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

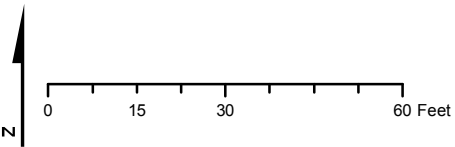
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

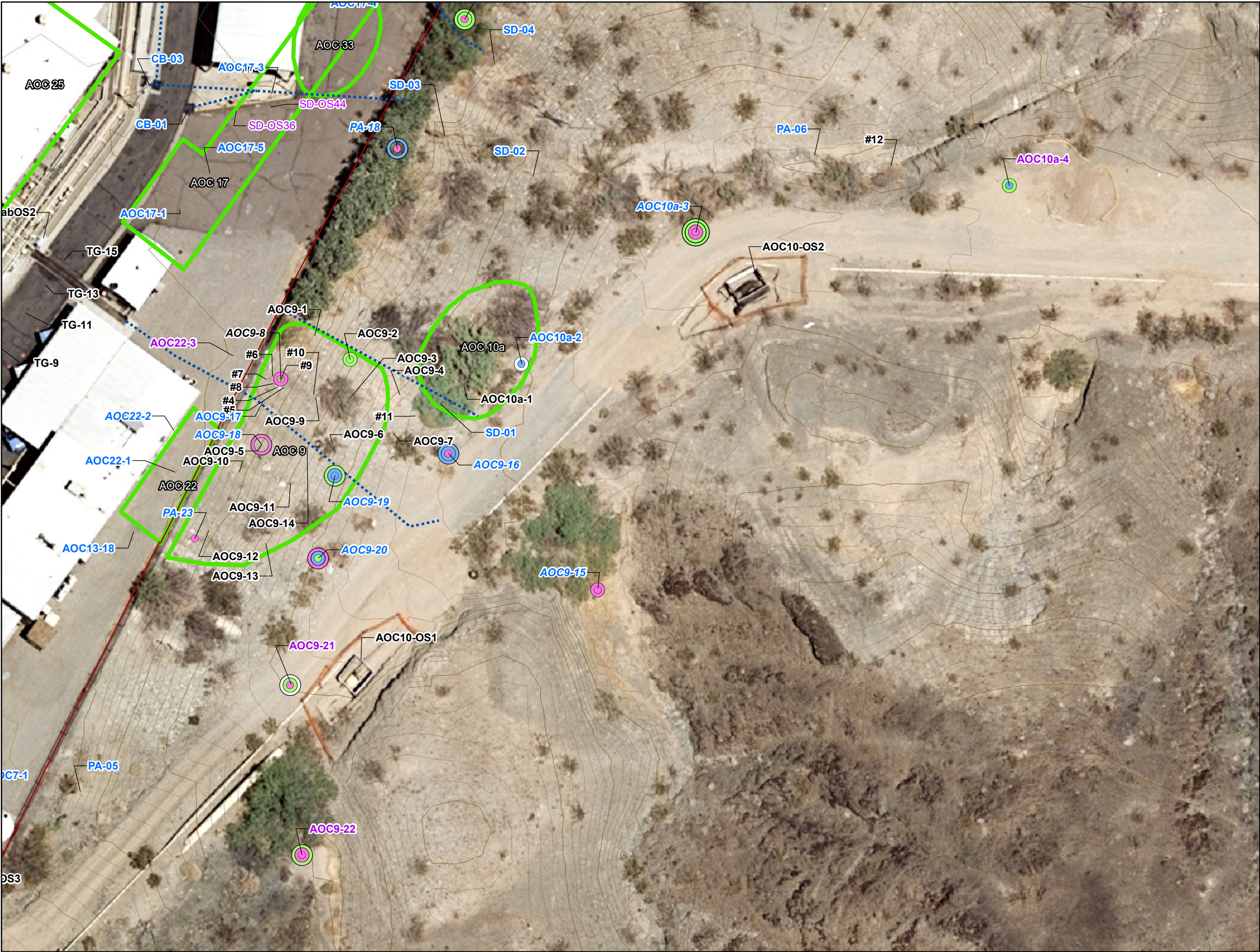
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total PCBs  
ECV 204 ug/kg  
Residential Screening Level 230 µg/kg  
Commercial Screening Level 940 µg/kg



**Figure 3-5k**  
**Total PCBs**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	Non-detect
>1 to 3 ft bgs	<= screening level
>3 to 6 ft bgs	> background
>6 to 10 ft bgs	> ECV to <=10x ECV
>10 to 15 ft bgs	
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

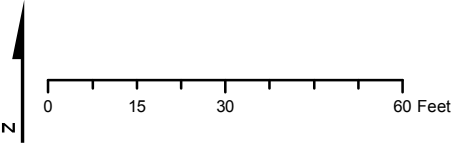
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.98 ng/kg  
TEQ Avian Ecological Comparison Value 16 ng/kg



**Figure 3-51**  
**Avian Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
0 to 1 ft bgs	Non-detect
>1 to 3 ft bgs	<= screening level
>3 to 6 ft bgs	> background
>6 to 10 ft bgs	> HHSL to <=10x HHSL
>10 to 15 ft bgs	
>15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

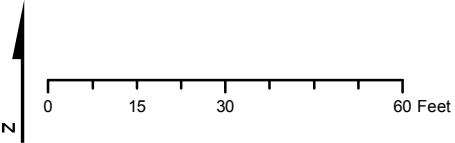
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Human Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.58 ng/kg  
Residential Screening Level 50 ng/kg  
Commercial Screening Level 220 ng/kg



**Figure 3-5m**  
**Human Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth	Concentration
○ 0 to 1 ft bgs	○ Non-detect
○ >1 to 3 ft bgs	● ≤ screening level
○ >3 to 6 ft bgs	● > background
○ >6 to 10 ft bgs	
○ >10 to 15 ft bgs	
○ >15 ft bgs	

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

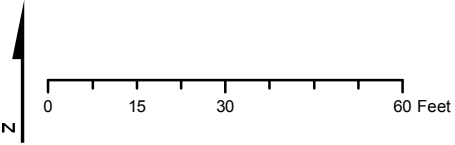
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mammal Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.58 ng/kg  
ECV 1.6 ng/kg



**Figure 3-5n**  
**Mammal Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 9**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > ECV to <=10x ECV

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Arsenic  
BKG 11 mg/kg  
ECV 11.4 mg/kg  
Residential Screening Level 0.11 mg/kg  
Commercial Screening Level 0.36 mg/kg

The human health screening level is below the background value; therefore, the

**Figure 3-6a**  
**Arsenic**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
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- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > HHSL to <=10x HHSL

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Cadmium  
BKG 1.1 mg/kg  
ECV 0.015 mg/kg  
Residential Screening Level 5.2 mg/kg  
Commercial Screening Level 7.3 mg/kg

The Ecological Comparison Value (0.015 mg/kg) is below the background value;

**Figure 3-6b**  
**Cadmium**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV
- > HHSL to <=10x HHSL

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Hexavalent Chromium  
BKG 0.83 mg/kg  
ECV 139.6 mg/kg  
Residential Screening Level 0.3 mg/kg  
Commercial Screening Level 6.3 mg/kg

Residential Human Health Screening level (0.3 mg/Kg) is below background value;

**Figure 3-6c**  
**Hexavalent Chromium**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- <= screening level
- > background

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total Chromium  
BKG 39.8 mg/kg  
ECV 36.3 mg/kg  
Residential Screening Level 36,000 mg/kg  
Commercial Screening Level 170,000 mg/kg

The Ecological Comparison Value (36.3 mg/kg) is below the background value;

**Figure 3-6d**  
**Total Chromium**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California

0 35 70 140 Feet





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- <= screening level
- > background
- > ECV to <=10x ECV
- > HHSL to <=10x HHSL

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

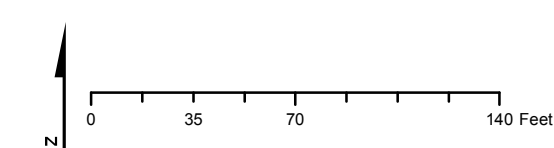
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Cobalt  
BKG 12.7 mg/kg  
ECV 13 mg/kg  
Residential Screening Level 23 mg/kg  
Commercial Screening Level 350 mg/kg



**Figure 3-6e**  
**Cobalt**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California









- LEGEND**
- Property Boundary
  - Area of Concern
  - Solid Waste Management Unit
  - Approximate Location of Stormwater Piping Below Ground
  - Approximate Location of Stormwater Piping Above Ground
  - Topock Compressor Station Fence Line

- Depth**
- 0 to 1 ft bgs
  - >1 to 3 ft bgs
  - >3 to 6 ft bgs
  - >6 to 10 ft bgs
  - >10 to 15 ft bgs
  - >15 ft bgs

- Concentration**
- Non-detect
  - <= screening level
  - > background
  - > HHS to <=10x HHS
  - >10x HHS to <=100x HHS

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

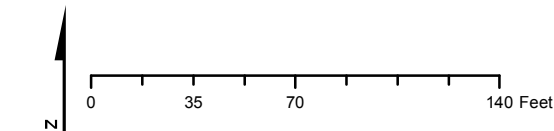
Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

**Lead**  
BKG 8.39 mg/kg  
ECV 0.0166 mg/kg  
Residential Screening Level 80 mg/kg  
Commercial Screening Level 320 mg/kg

The Ecological Comparison Value (0.0166 mg/kg) is below the background value;



**Figure 3-6g**  
**Lead**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV
- > HHSL to <=10x HHSL
- >10x HHSL to <=100x HHSL

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

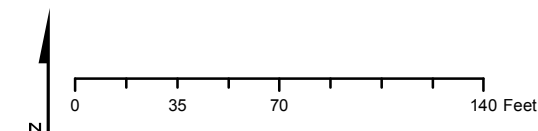
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mercury  
ECV 0.0125 mg/kg  
Residential Screening Level 1 mg/kg  
Commercial Screening Level 4.5 mg/kg



**Figure 3-6h**  
**Mercury**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > ECV to <=10x ECV

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Molybdenum  
BKG 1.37 mg/kg  
ECV 2.25 mg/kg  
Residential Screening Level 390 mg/kg  
Commercial Screening Level 5,800 mg/kg

**Figure 3-6i**  
**Molybdenum**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Nickel  
BKG 27.3 mg/kg  
ECV 0.607 mg/kg  
Residential Screening Level 490 mg/kg  
Commercial Screening Level 3,100 mg/kg

The Ecological Comparison Value (0.607 mg/kg) is below the background value;

Figure 3-6j  
Nickel  
Soil Sample Results  
AOC 10 and UA 2  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
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- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Zinc  
BKG 58 mg/kg  
ECV 0.164 mg/kg  
Residential Screening Level 23,000 mg/kg  
Commercial Screening Level 350,000 mg/kg

The Ecological Comparison Value (0.164 mg/kg) is below the background value;

**Figure 3-61**  
**Zinc**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > HHSL to <=10x HHSL
- >10x HHSL to <=100x HHSL

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

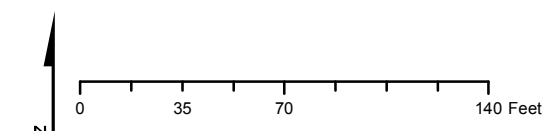
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Benzo(a)Pyrene Equivalent  
BKG 55 ug/kg  
Residential Screening Level 110 ug/kg  
Commercial Screening Level 2,100 ug/kg



**Figure 3-6m**  
**Benzo(a)Pyrene Equivalent**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

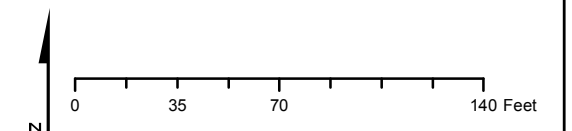
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

PAH High molecular weight  
ECV 1,160 ug/kg



**Figure 3-6n**  
**PAH High molecular weight**  
**Soil Sample Results**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > HHSL to <=10x HHSL
- >10x HHSL to <=100x HHSL

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

TPH as diesel  
Residential Screening Level 230 mg/kg  
Commercial Screening Level 1,100 mg/kg

**Figure 3-6o**  
**TPH as diesel**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California













**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > HHSL to <=10x HHSL
- >10x HHSL to <=100x HHSL

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

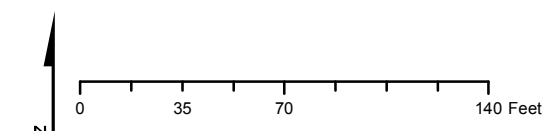
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Human Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.58 ng/kg  
Residential Screening Level 50 ng/kg  
Commercial Screening Level 220 ng/kg



**Figure 3-6r**  
**Human Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 10 and UA 2**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

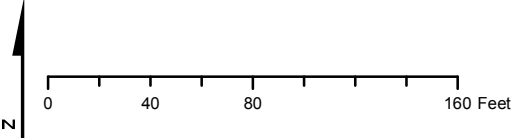
Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mammal Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.58 ng/kg  
ECV 1.6 ng/kg

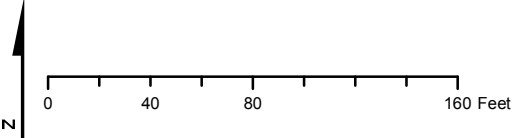
Figure 3-6s  
Mammal Dioxins and Furans TEQ  
Soil Sample Results  
AOC 10 and UA 2  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California

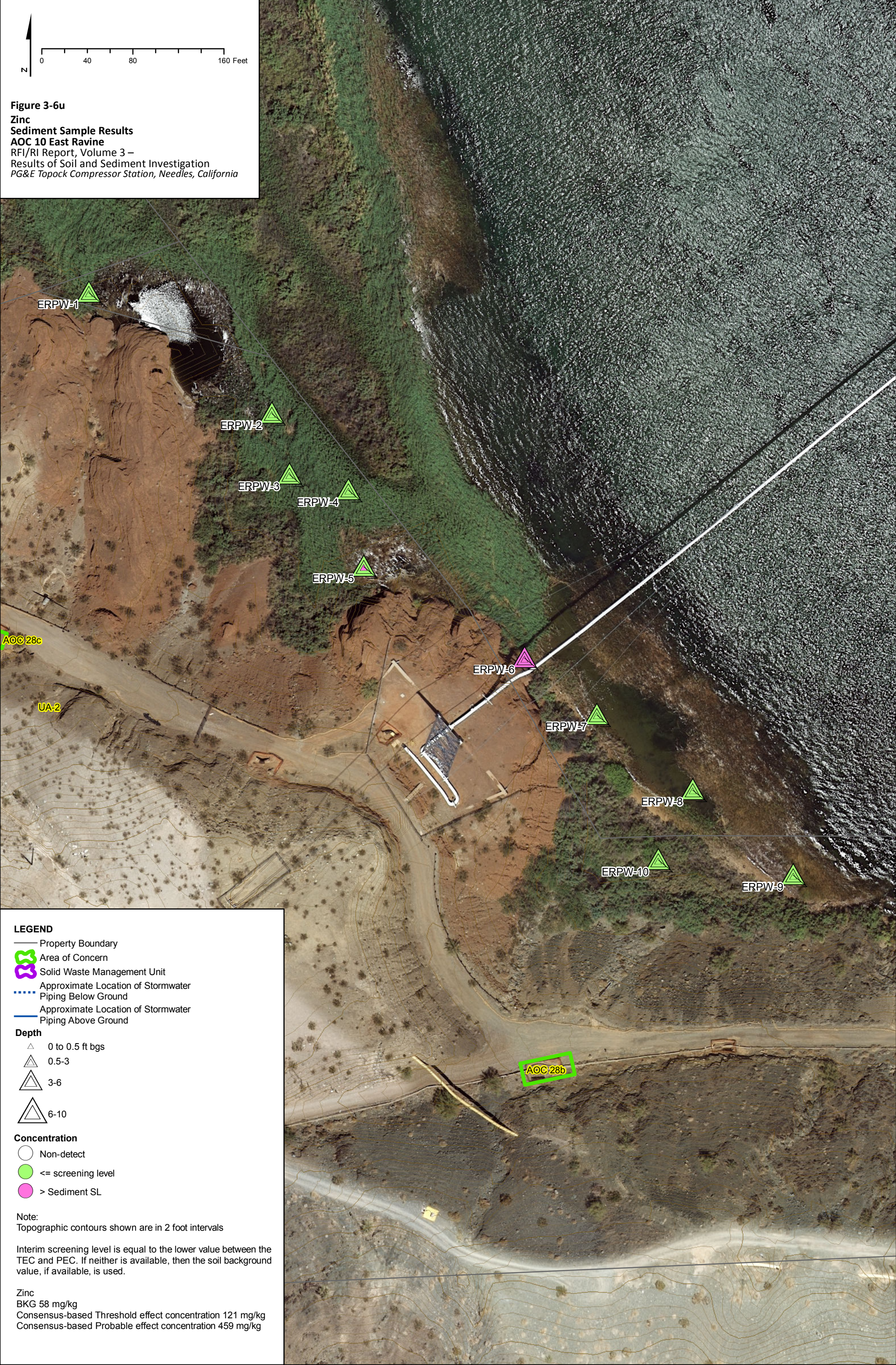


  
**Figure 3-6t**  
**Arsenic**  
**Sediment Sample Results**  
**AOC 10 East Ravine**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





  
**Figure 3-6u**  
**Zinc**  
**Sediment Sample Results**  
**AOC 10 East Ravine**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





- LEGEND**
- Property Boundary
  - Area of Concern
  - Solid Waste Management Unit
  - Approximate Location of Stormwater Piping Below Ground
  - Approximate Location of Stormwater Piping Above Ground
  - Topock Compressor Station Fence Line

- Depth**
- 0 to 1 ft bgs
  - >1 to 3 ft bgs
  - >3 to 6 ft bgs
  - >6 to 10 ft bgs
  - >10 to 15 ft bgs
  - >15 ft bgs

- Concentration**
- <= screening level
  - > background

Note:  
Topographic contours shown are in 2-foot intervals

The >15 ft bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

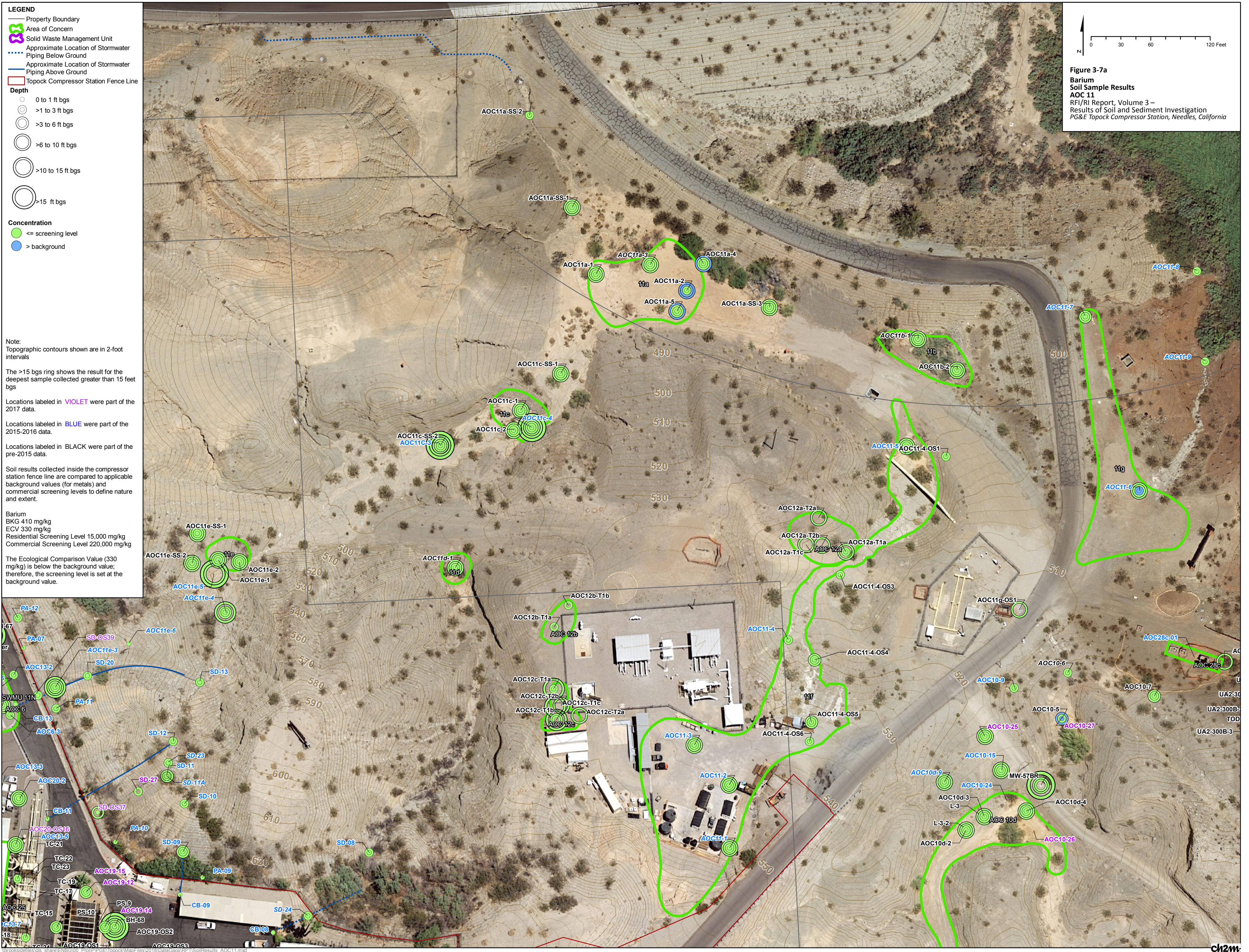
Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Barium  
BKG 410 mg/kg  
ECV 330 mg/kg  
Residential Screening Level 15,000 mg/kg  
Commercial Screening Level 220,000 mg/kg

The Ecological Comparison Value (330 mg/kg) is below the background value; therefore, the screening level is set at the background value.

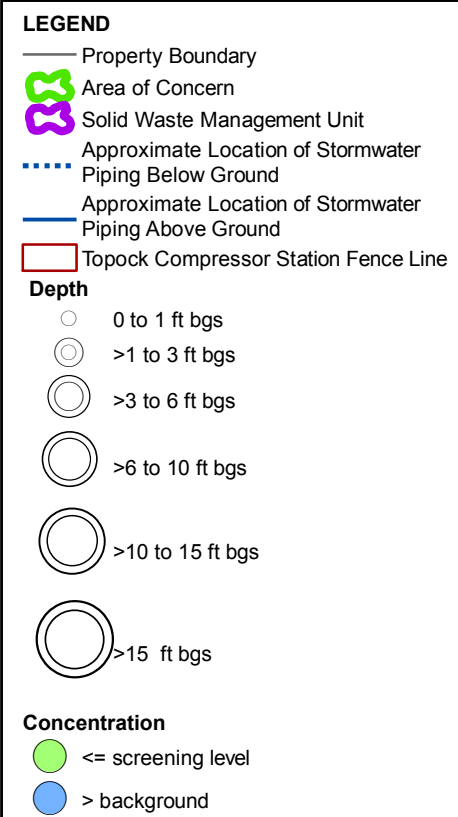
**Figure 3-7a**  
**Barium**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California











Note:  
Topographic contours shown are in 2-foot intervals

The >15 ft bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total Chromium  
BKG 39.8 mg/kg  
ECV 36.3 mg/kg  
Residential Screening Level 36,000 mg/kg  
Commercial Screening Level 170,000 mg/kg

The Ecological Comparison Value (36.3 mg/kg) is below the background value; therefore, the screening level is set at the background value.

**Figure 3-7c**  
**Total Chromium**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > ECV to <=10x ECV

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Copper  
BKG 16.8 mg/kg  
ECV 20.6 mg/kg  
Residential Screening Level 3,100 mg/kg  
Commercial Screening Level 47,000 mg/kg

**Figure 3-7d**  
**Copper**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





- LEGEND**
- Property Boundary
  - Area of Concern
  - Solid Waste Management Unit
  - Approximate Location of Stormwater Piping Below Ground
  - Approximate Location of Stormwater Piping Above Ground
  - Topock Compressor Station Fence Line

- Depth**
- 0 to 1 ft bgs
  - >1 to 3 ft bgs
  - >3 to 6 ft bgs
  - >6 to 10 ft bgs
  - >10 to 15 ft bgs
  - >15 ft bgs

- Concentration**
- Non-detect
  - <= screening level
  - > background
  - > HHSL to <=10x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

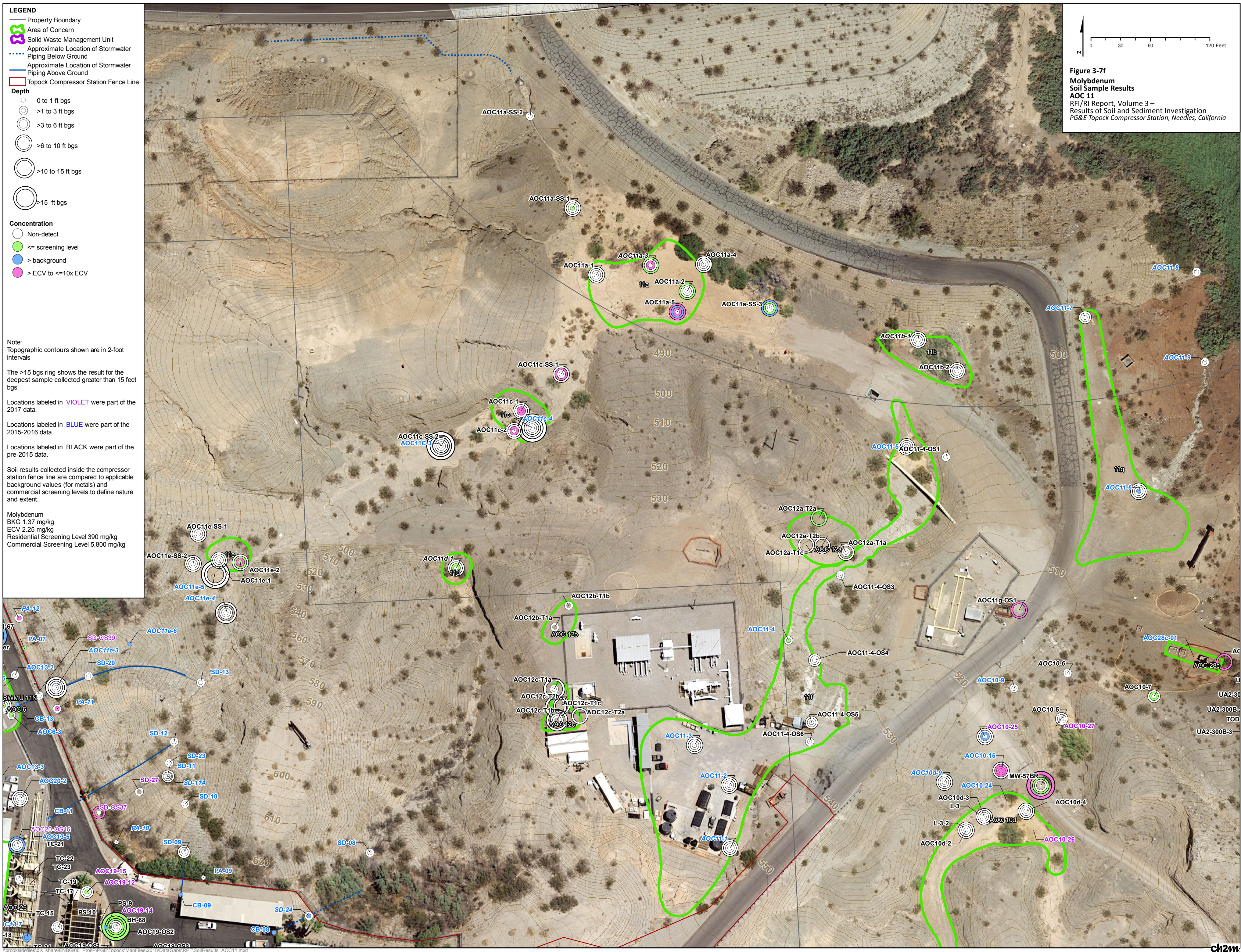
Lead  
BKG 8.39 mg/kg  
ECV 0.0166 mg/kg  
Residential Screening Level 80 mg/kg  
Commercial Screening Level 320 mg/kg

The Ecological Comparison Value (0.0166 mg/kg) is below the background value; therefore, the screening level is set at the background value.

**Figure 3-7e**  
**Lead**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

The >15 ft bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

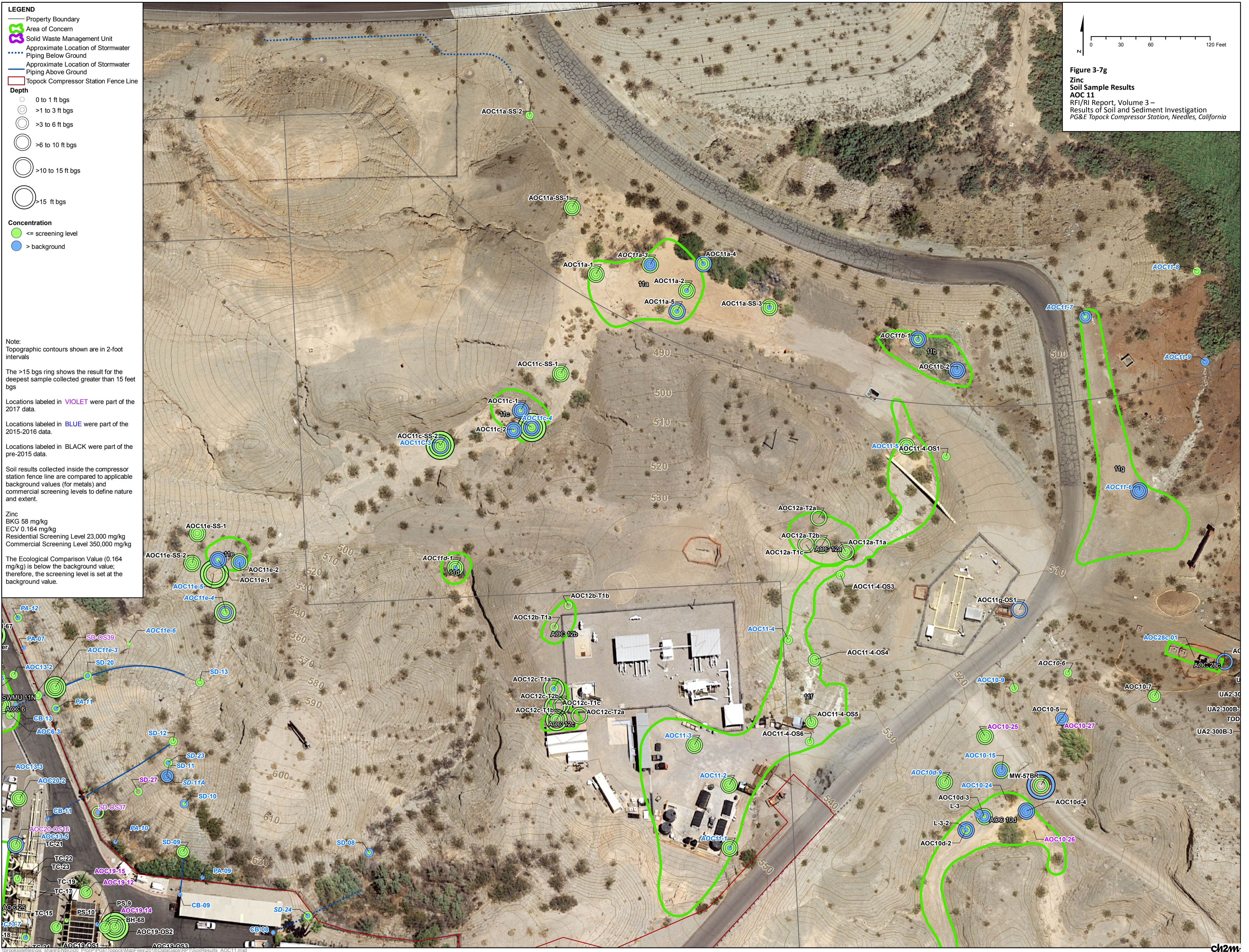
Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

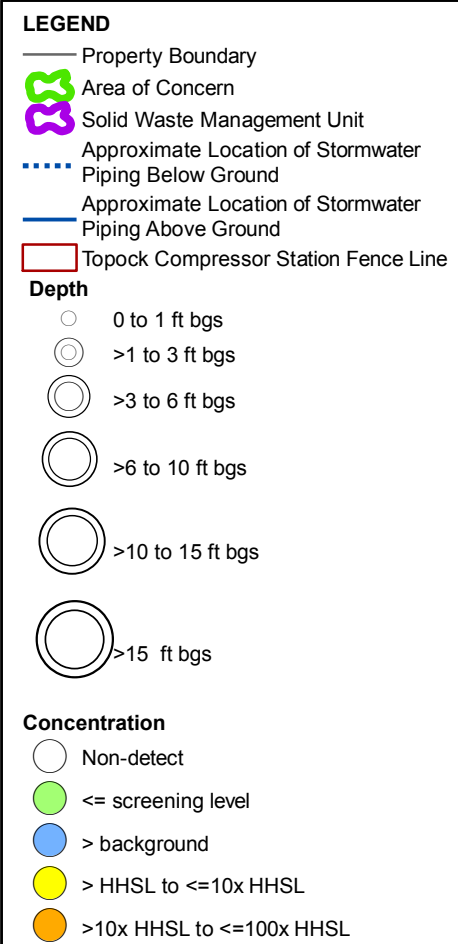
Zinc  
BKG 58 mg/kg  
ECV 0.164 mg/kg  
Residential Screening Level 23,000 mg/kg  
Commercial Screening Level 350,000 mg/kg

The Ecological Comparison Value (0.164 mg/kg) is below the background value; therefore, the screening level is set at the background value.

**Figure 3-7g**  
**Zinc**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California







Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Benzo(a)Pyrene Equivalent  
BKG 55 ug/kg  
Residential Screening Level 110 ug/kg  
Commercial Screening Level 2,100 ug/kg

**Figure 3-7h**  
**Benzo(a)Pyrene Equivalent**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California













- LEGEND**
- Property Boundary
  - Area of Concern
  - Solid Waste Management Unit
  - Approximate Location of Stormwater Piping Below Ground
  - Approximate Location of Stormwater Piping Above Ground
  - Topock Compressor Station Fence Line

- Depth**
- 0 to 1 ft bgs
  - >1 to 3 ft bgs
  - >3 to 6 ft bgs
  - >6 to 10 ft bgs
  - >10 to 15 ft bgs
  - >15 ft bgs

- Concentration**
- Non-detect
  - <= screening level
  - > HHSL to <=10x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Aroclor 1254  
Residential Screening Level 240 ug/kg  
Commercial Screening Level 970 ug/kg

**Figure 3-7k**  
**Aroclor 1254**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





- LEGEND**
- Property Boundary
  - Area of Concern
  - Solid Waste Management Unit
  - Approximate Location of Stormwater Piping Below Ground
  - Approximate Location of Stormwater Piping Above Ground
  - Topock Compressor Station Fence Line

- Depth**
- 0 to 1 ft bgs
  - >1 to 3 ft bgs
  - >3 to 6 ft bgs
  - >6 to 10 ft bgs
  - >10 to 15 ft bgs
  - >15 ft bgs

- Concentration**
- Non-detect
  - <= screening level
  - > ECV to <=10x ECV

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total PCBs  
ECV 204 ug/kg  
Residential Screening Level 230 ug/kg  
Commercial Screening Level 940 ug/kg

**Figure 3-71**  
**Total PCBs**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

Property Boundary  
Area of Concern  
Solid Waste Management Unit  
Approximate Location of Stormwater Piping Below Ground  
Approximate Location of Stormwater Piping Above Ground  
Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV
- >100x HHSL or ECV

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.98 ng/kg  
TEQ Avian Ecological Comparison Value 16 ng/kg

**Figure 3-7m**  
**Avian Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

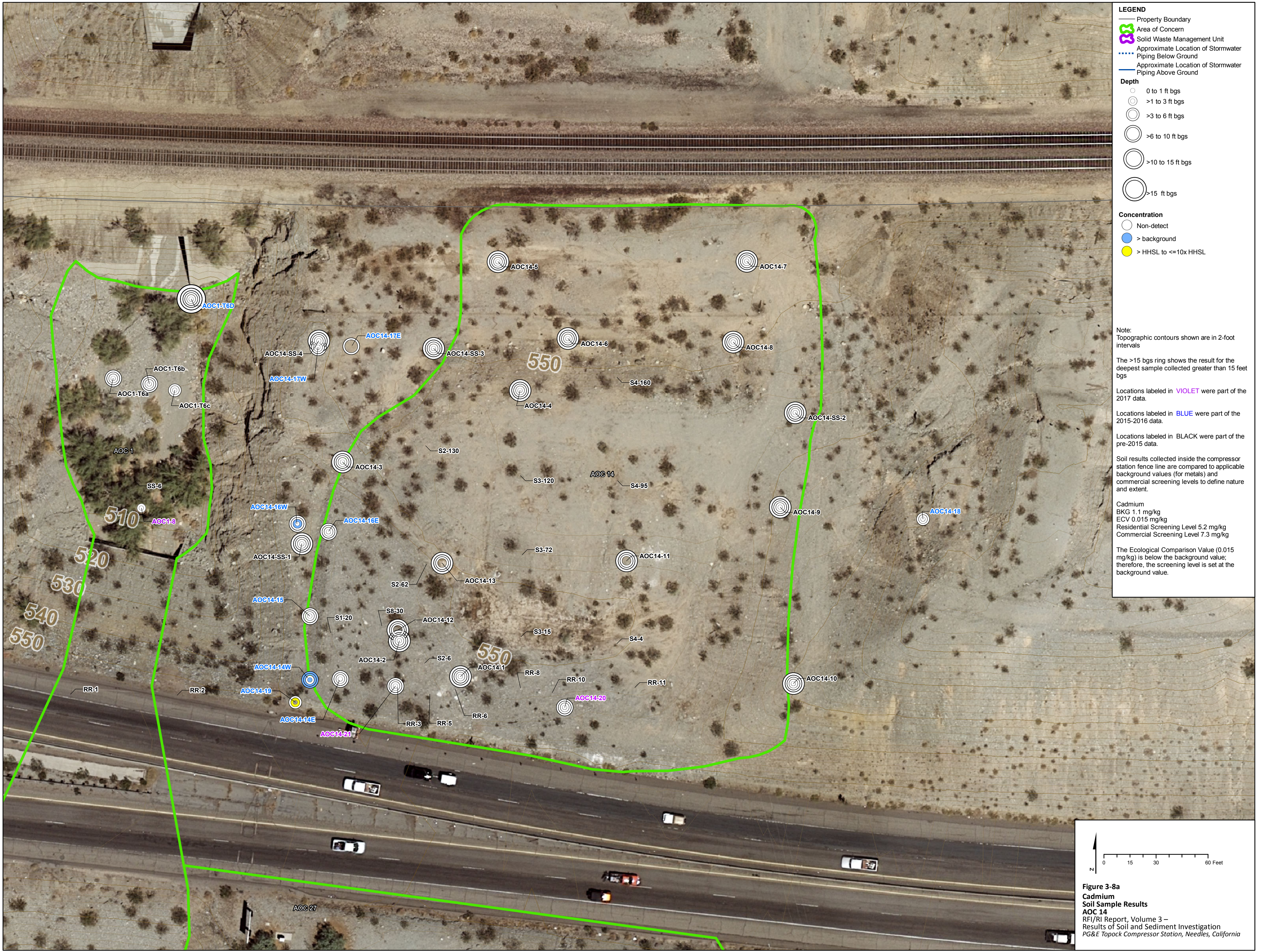
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mammal Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.58 ng/kg  
ECV 1.6 ng/kg

**Figure 3-7o**  
**Mammal Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 11**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California







**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- > background
- > HHSL to <=10x HHSL

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

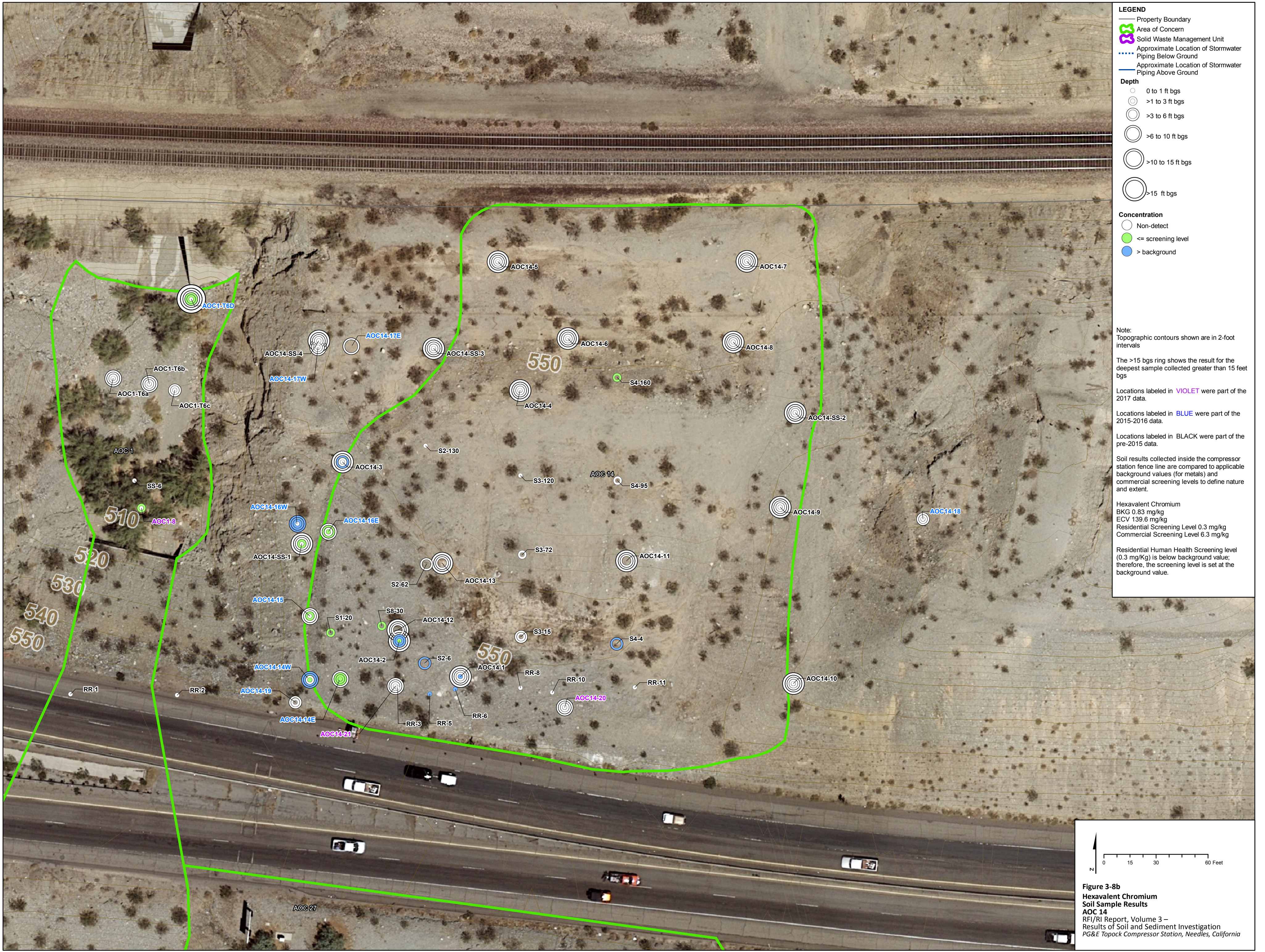
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Cadmium  
BKG 1.1 mg/kg  
ECV 0.015 mg/kg  
Residential Screening Level 5.2 mg/kg  
Commercial Screening Level 7.3 mg/kg

The Ecological Comparison Value (0.015 mg/kg) is below the background value; therefore, the screening level is set at the background value.

**Figure 3-8a**  
**Cadmium**  
**Soil Sample Results**  
**AOC 14**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

**Note:**  
Topographic contours shown are in 2-foot intervals.

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs.

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

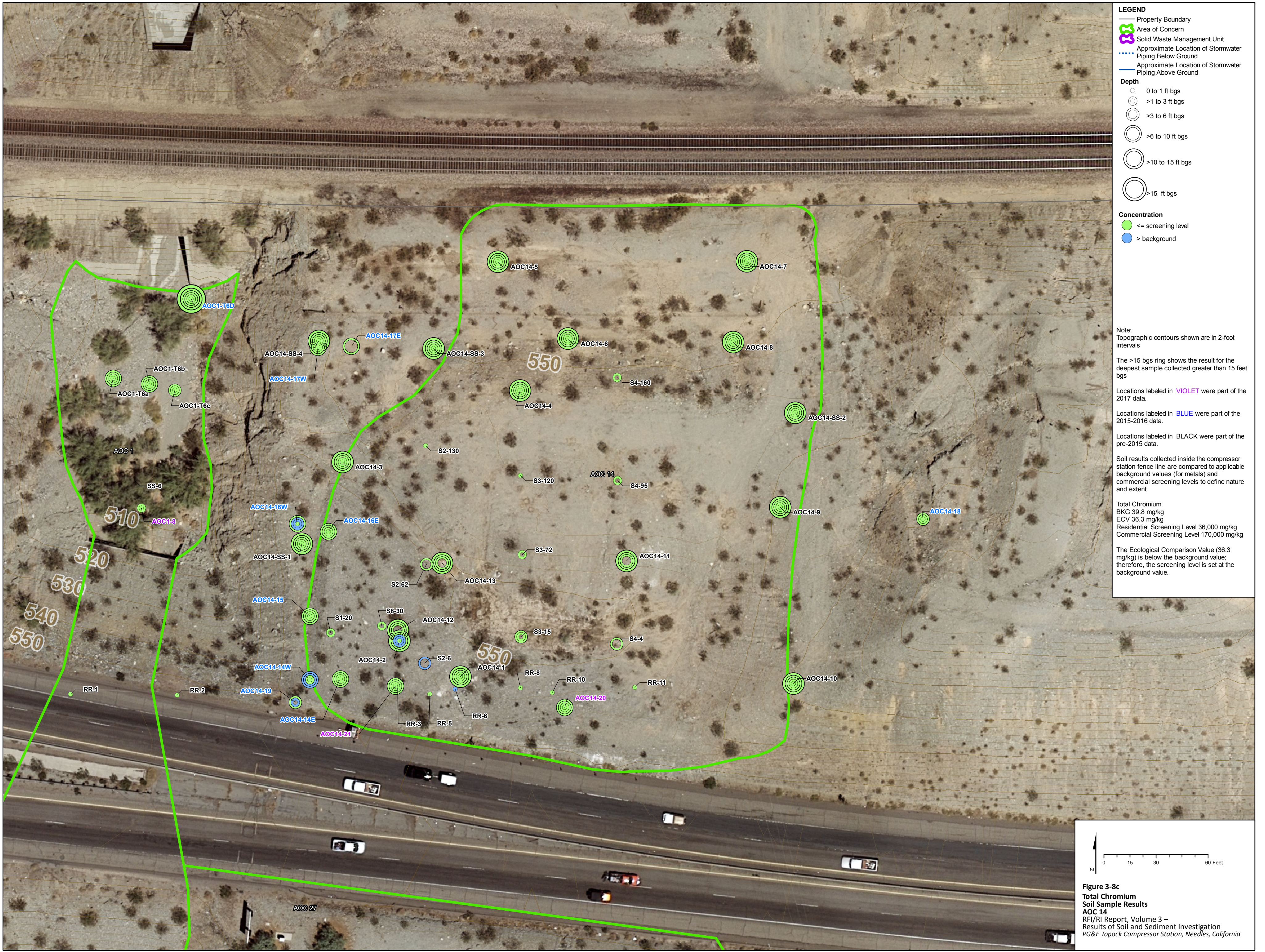
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Hexavalent Chromium  
BKG 0.83 mg/kg  
ECV 139.6 mg/kg  
Residential Screening Level 0.3 mg/kg  
Commercial Screening Level 6.3 mg/kg

Residential Human Health Screening level (0.3 mg/kg) is below background value; therefore, the screening level is set at the background value.

**Figure 3-8b**  
**Hexavalent Chromium**  
**Soil Sample Results**  
**AOC 14**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- <= screening level
- > background

**Note:**  
Topographic contours shown are in 2-foot intervals.

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs.

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Total Chromium  
BKG 39.8 mg/kg  
ECV 36.3 mg/kg  
Residential Screening Level 36,000 mg/kg  
Commercial Screening Level 170,000 mg/kg

The Ecological Comparison Value (36.3 mg/kg) is below the background value; therefore, the screening level is set at the background value.

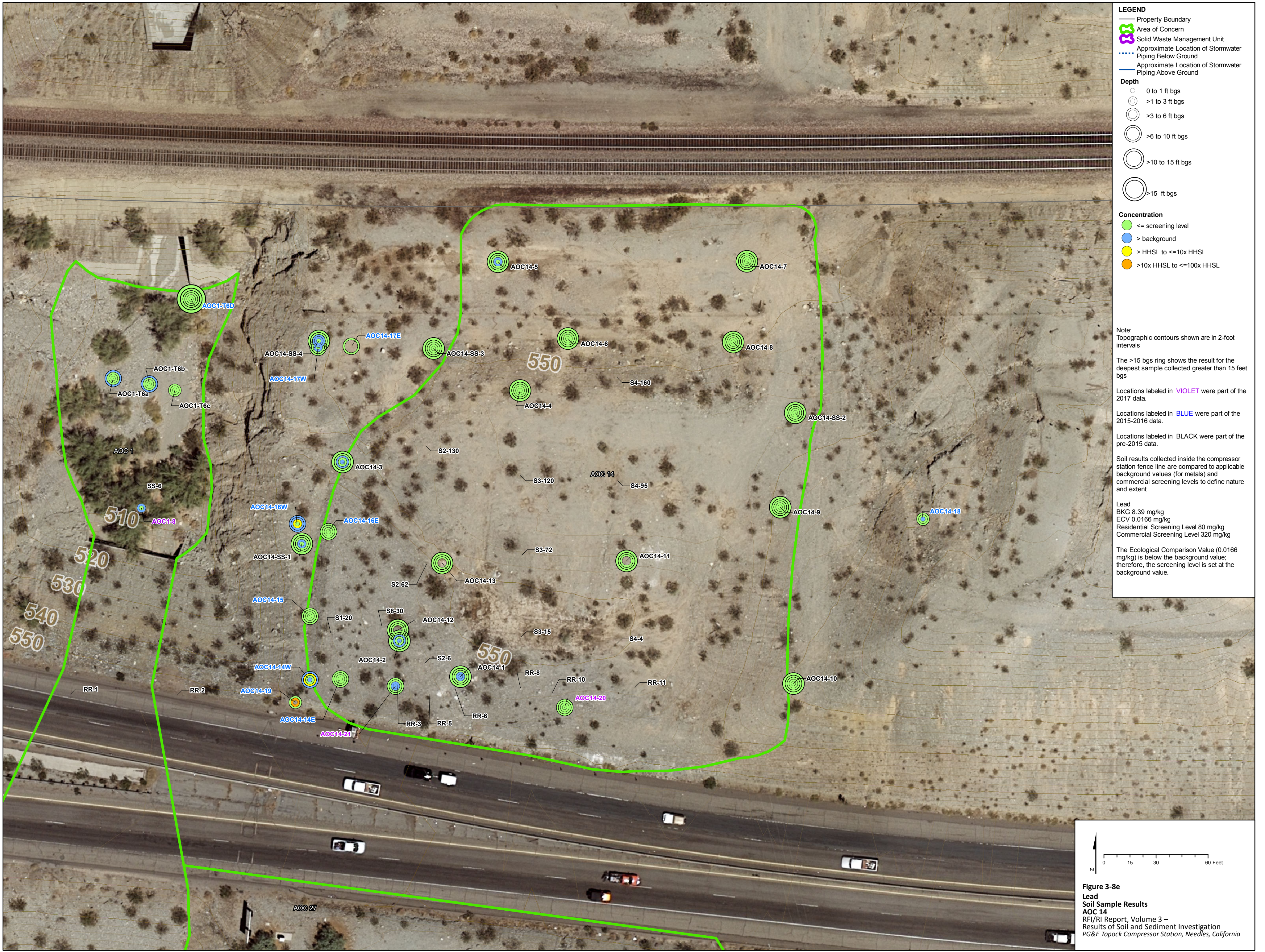
**Figure 3-8c**  
**Total Chromium**  
**Soil Sample Results**  
**AOC 14**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California

0 15 30 60 Feet









**LEGEND**

— Property Boundary

Area of Concern

Solid Waste Management Unit

..... Approximate Location of Stormwater Piping Below Ground

— Approximate Location of Stormwater Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- <= screening level
- > background
- > HHSL to <=10x HHSL
- >10x HHSL to <=100x HHSL

Note:  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

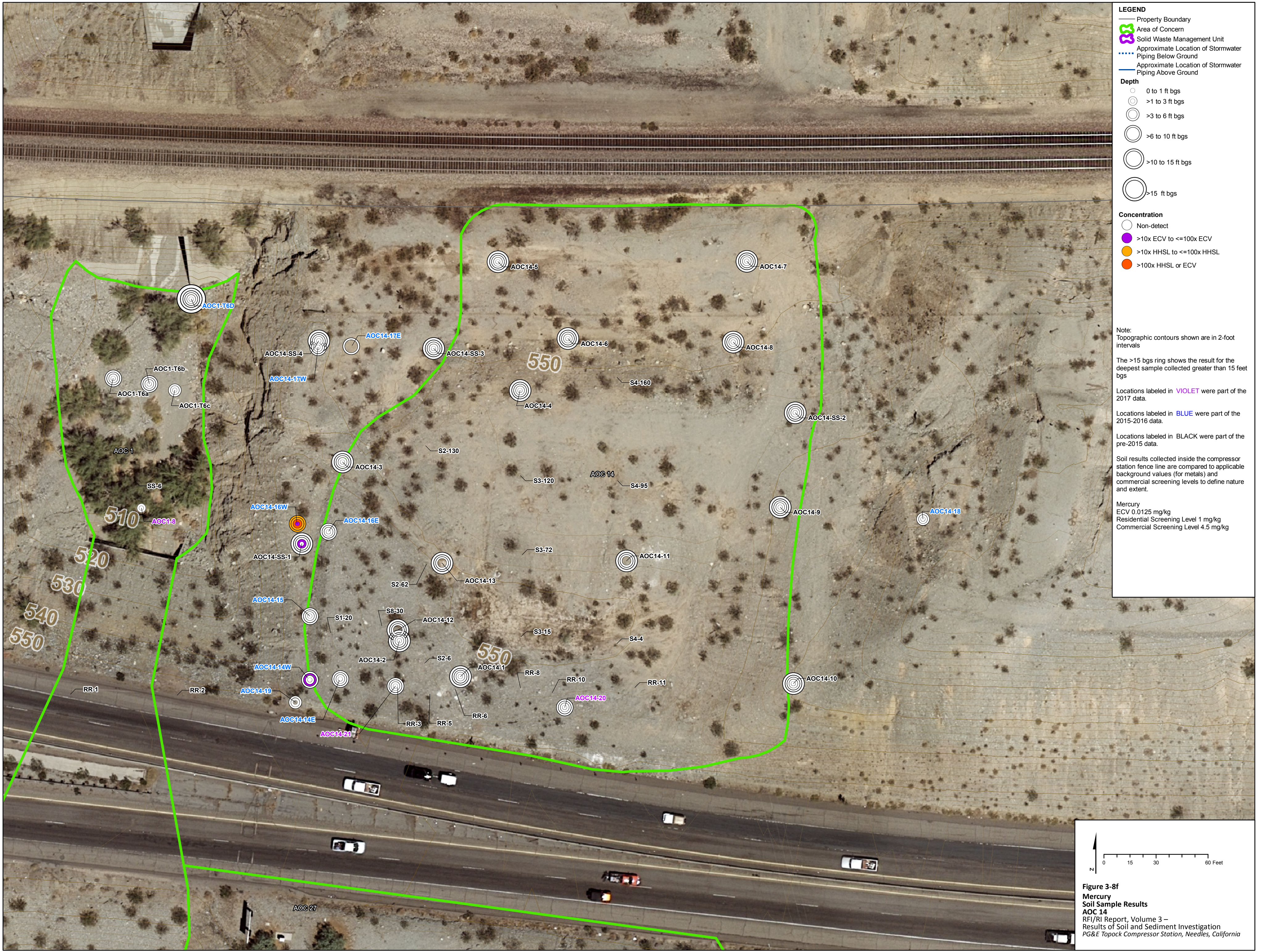
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Lead  
BKG 8.39 mg/kg  
ECV 0.0166 mg/kg  
Residential Screening Level 80 mg/kg  
Commercial Screening Level 320 mg/kg

The Ecological Comparison Value (0.0166 mg/kg) is below the background value; therefore, the screening level is set at the background value.

**Figure 3-8e**  
**Lead**  
**Soil Sample Results**  
**AOC 14**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

— Property Boundary

Area of Concern

Solid Waste Management Unit

..... Approximate Location of Stormwater Piping Below Ground

— Approximate Location of Stormwater Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- >10x ECV to <=100x ECV
- >10x HHSL to <=100x HHSL
- >100x HHSL or ECV

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

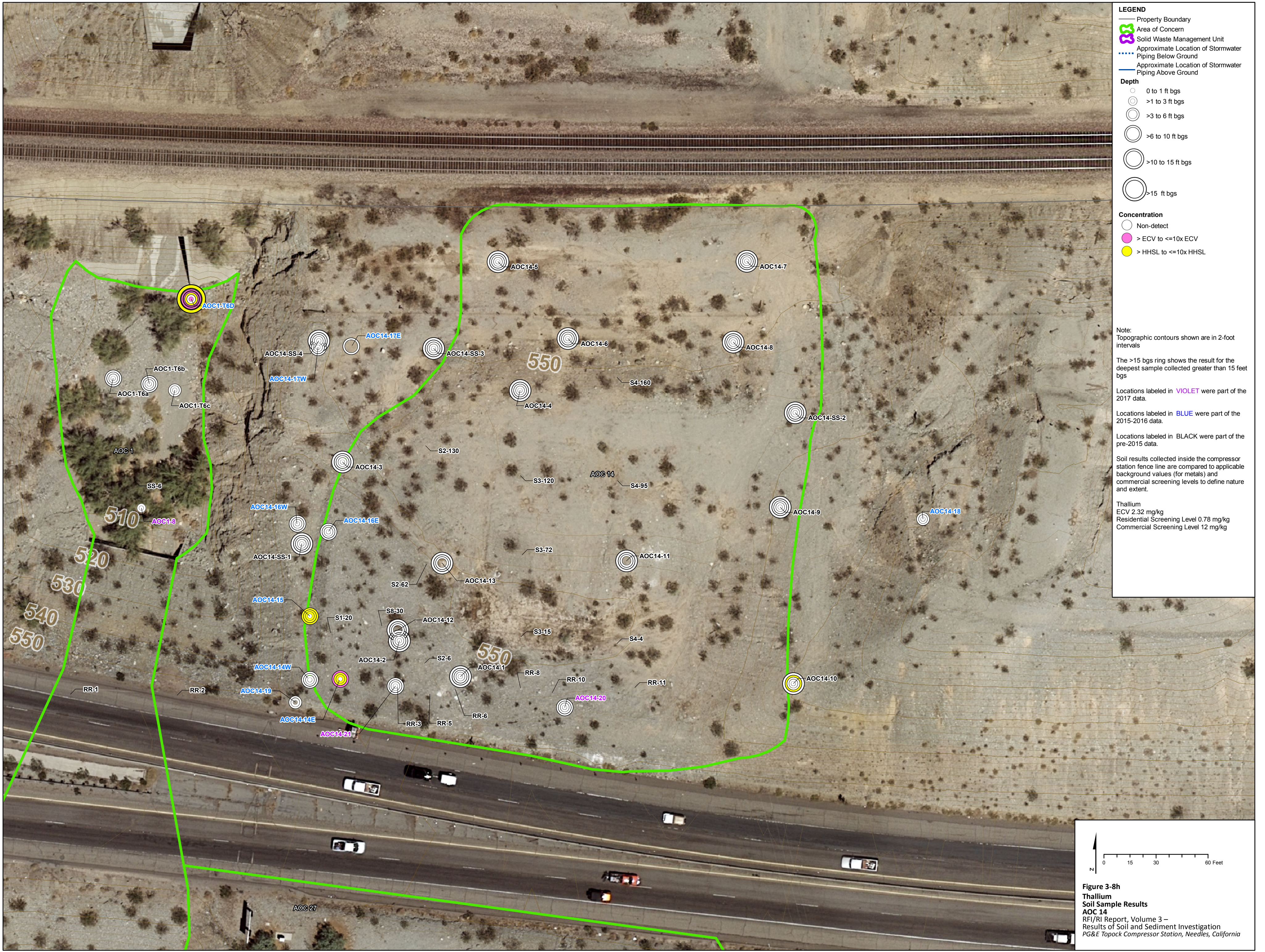
Mercury  
ECV 0.0125 mg/kg  
Residential Screening Level 1 mg/kg  
Commercial Screening Level 4.5 mg/kg

**Figure 3-8f**  
**Mercury**  
**Soil Sample Results**  
**AOC 14**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- Non-detect
- > ECV to <=10x ECV
- > HHSL to <=10x HHSL

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

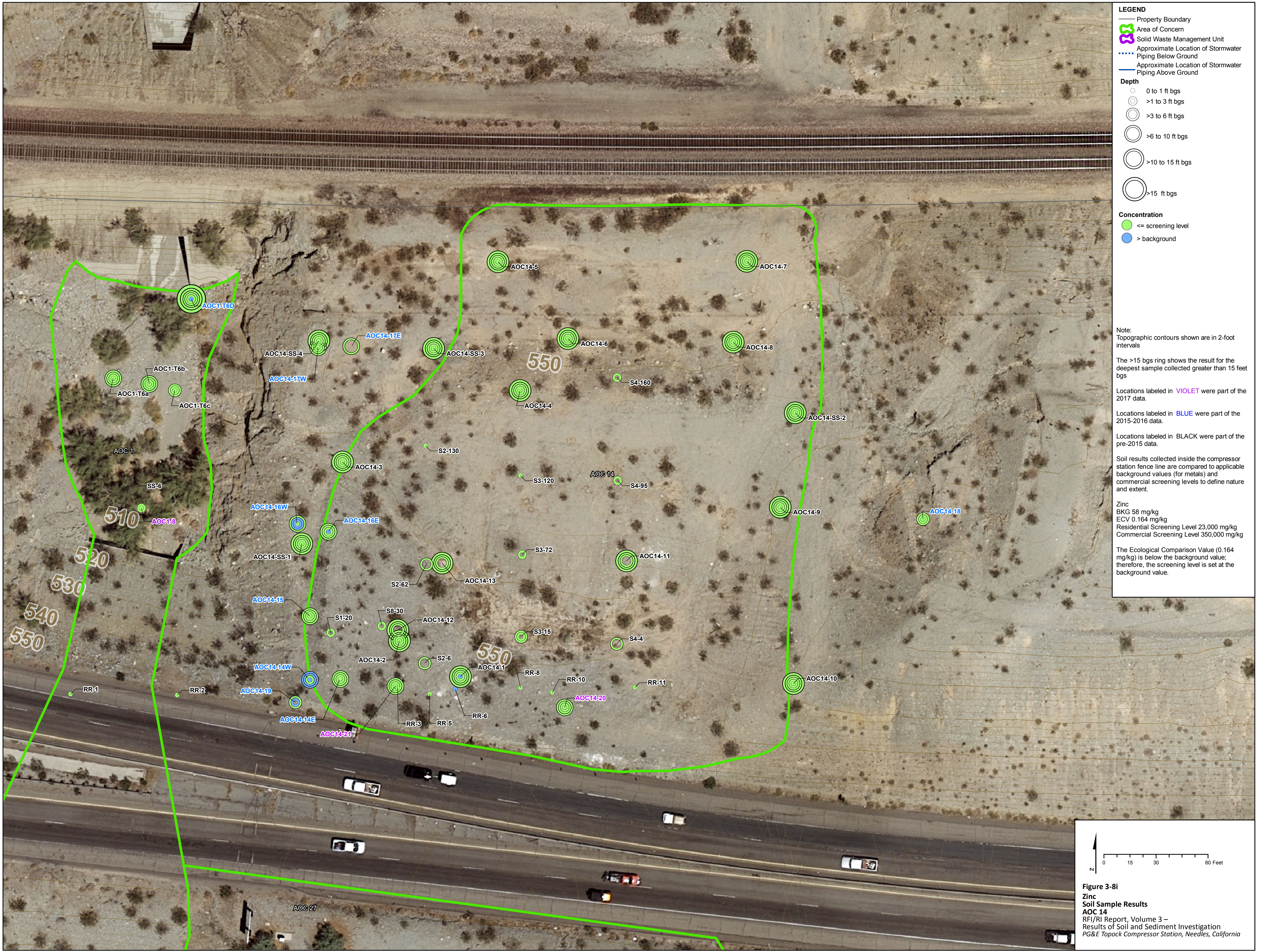
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Thallium  
ECV 2.32 mg/kg  
Residential Screening Level 0.78 mg/kg  
Commercial Screening Level 12 mg/kg

**Figure 3-8h**  
**Thallium**  
**Soil Sample Results**  
**AOC 14**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California

N  
0 15 30 60 Feet





**LEGEND**

— Property Boundary  
Area of Concern  
Solid Waste Management Unit  
..... Approximate Location of Stormwater Piping Below Ground  
— Approximate Location of Stormwater Piping Above Ground

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >10 to 15 ft bgs
- >15 ft bgs

**Concentration**

- ≤ screening level
- > background

**Note:**  
Topographic contours shown are in 2-foot intervals

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

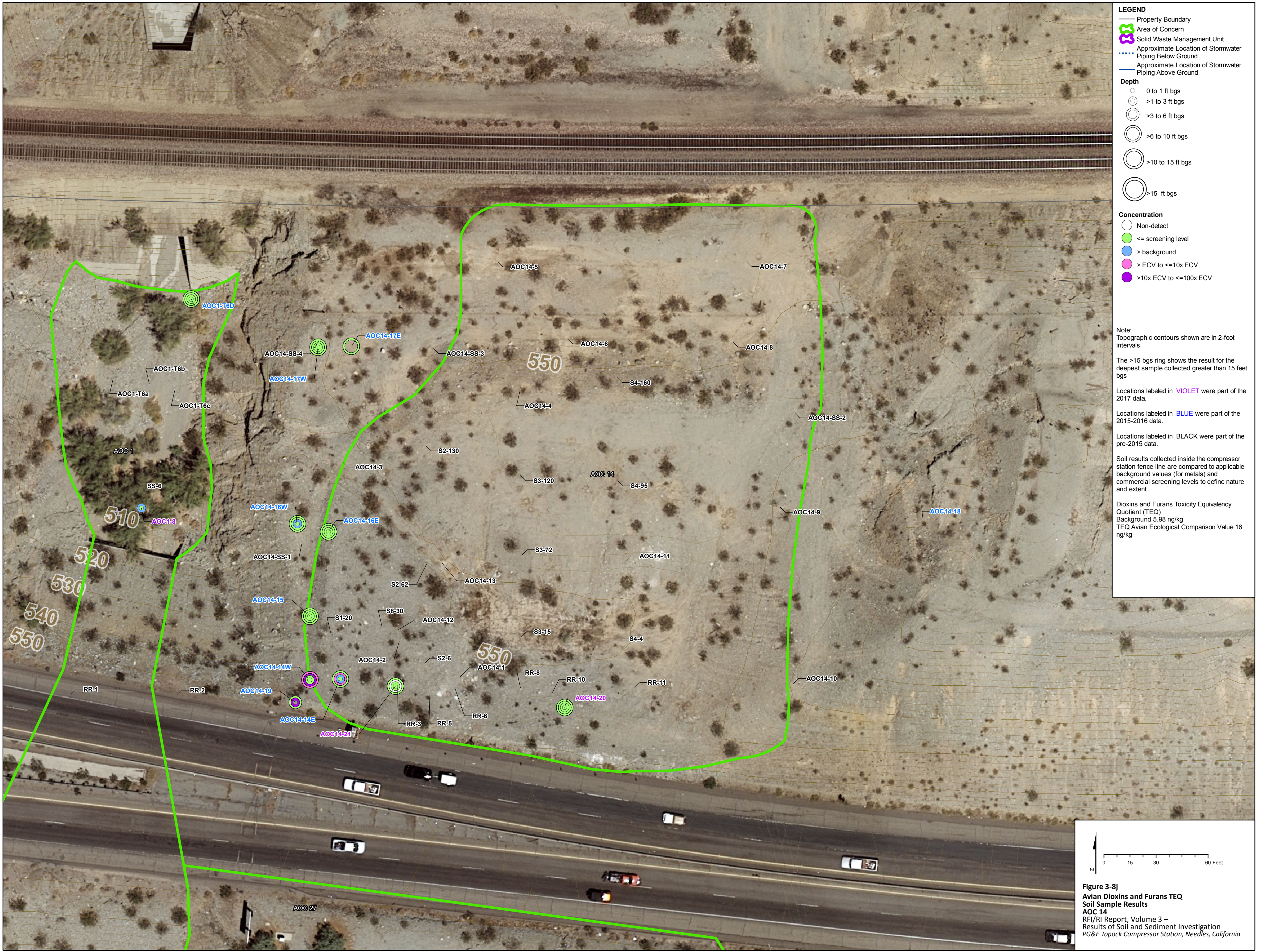
**Zinc**  
BKG 58 mg/kg  
ECV 0.164 mg/kg  
Residential Screening Level 23,000 mg/kg  
Commercial Screening Level 350,000 mg/kg

The Ecological Comparison Value (0.164 mg/kg) is below the background value; therefore, the screening level is set at the background value.

**Figure 3-8i**  
**Zinc**  
**Soil Sample Results**  
**AOC 14**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California

N  
0 15 30 60 Feet





- LEGEND**
- Property Boundary
  - Area of Concern
  - Solid Waste Management Unit
  - Approximate Location of Stormwater Piping Below Ground
  - Approximate Location of Stormwater Piping Above Ground
- Depth**
- 0 to 1 ft bgs
  - >1 to 3 ft bgs
  - >3 to 6 ft bgs
  - >6 to 10 ft bgs
  - >10 to 15 ft bgs
  - >15 ft bgs
- Concentration**
- Non-detect
  - <= screening level
  - > background
  - > ECV to <=10x ECV
  - >10x ECV to <=100x ECV

**Note:**  
Topographic contours shown are in 2-foot intervals.

The >15 bgs ring shows the result for the deepest sample collected greater than 15 feet bgs.

Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

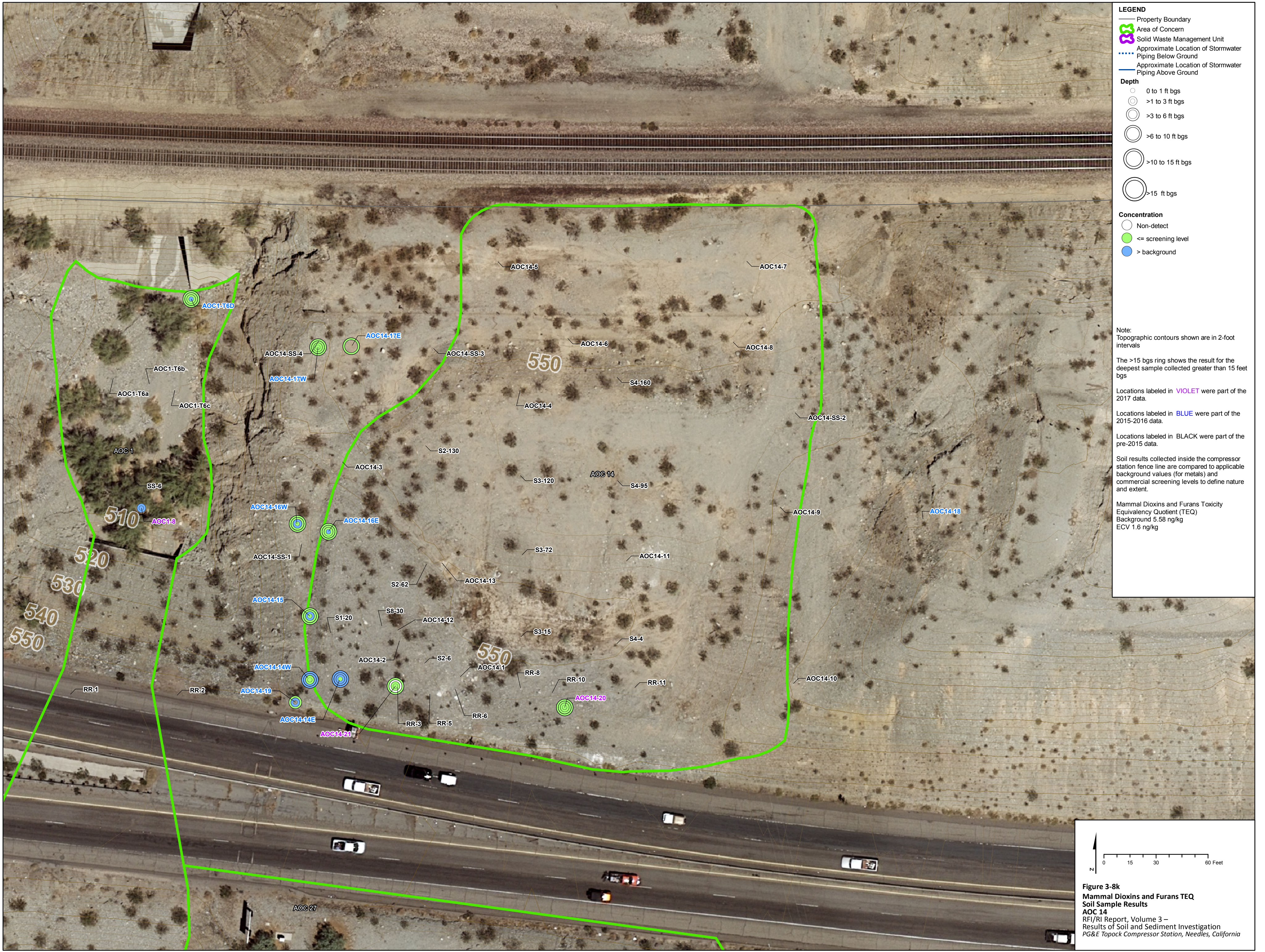
Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.98 ng/kg  
TEQ Avian Ecological Comparison Value 16 ng/kg

**Figure 3-8j**  
**Avian Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 14**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California













**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Soil Trench

Depth	Concentration
0 to 1 ft bgs	Non-detect
>1 to 3 ft bgs	<= screening level
>3 to 6 ft bgs	> background
>6 to 10 ft bgs	
>11 to 15 ft bgs	
>16 ft bgs	

**Note:**

Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

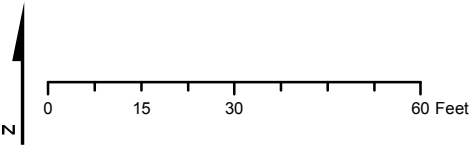
Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

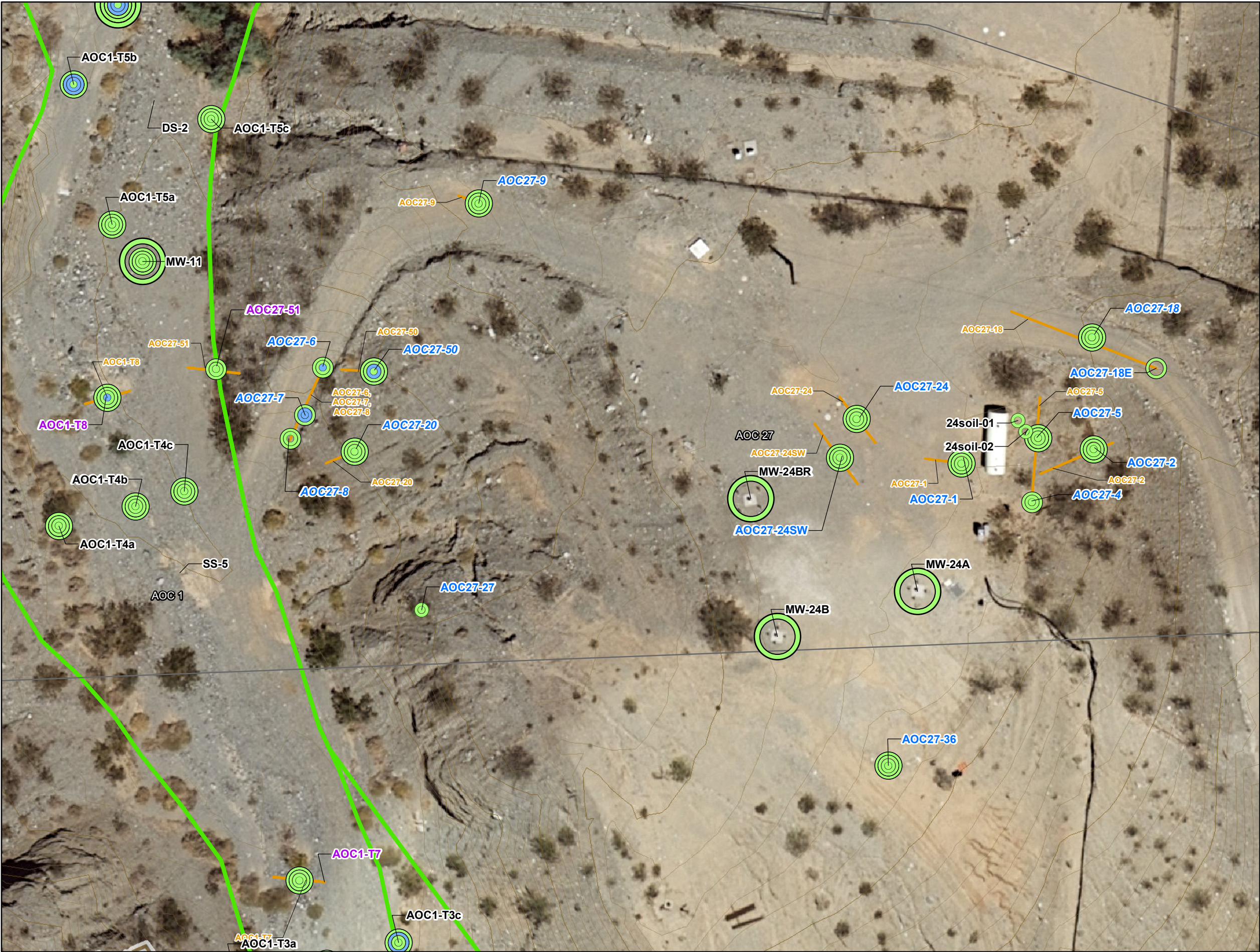
Hexavalent Chromium  
BKG 0.83 mg/kg  
ECV 139.6 mg/kg  
Residential Screening Level 0.3 mg/kg  
Commercial Screening Level 6.3 mg/kg

Residential Human Health Screening level (0.3 mg/Kg) is below background value; therefore, the screening level is set at the background value.



**Figure 3-9b**  
**Hexavalent Chromium**  
**Soil Sample Results**  
**AOC 27**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Soil Trench

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- ≤ screening level
- > background

**Note:**

Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

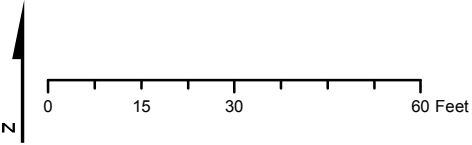
Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

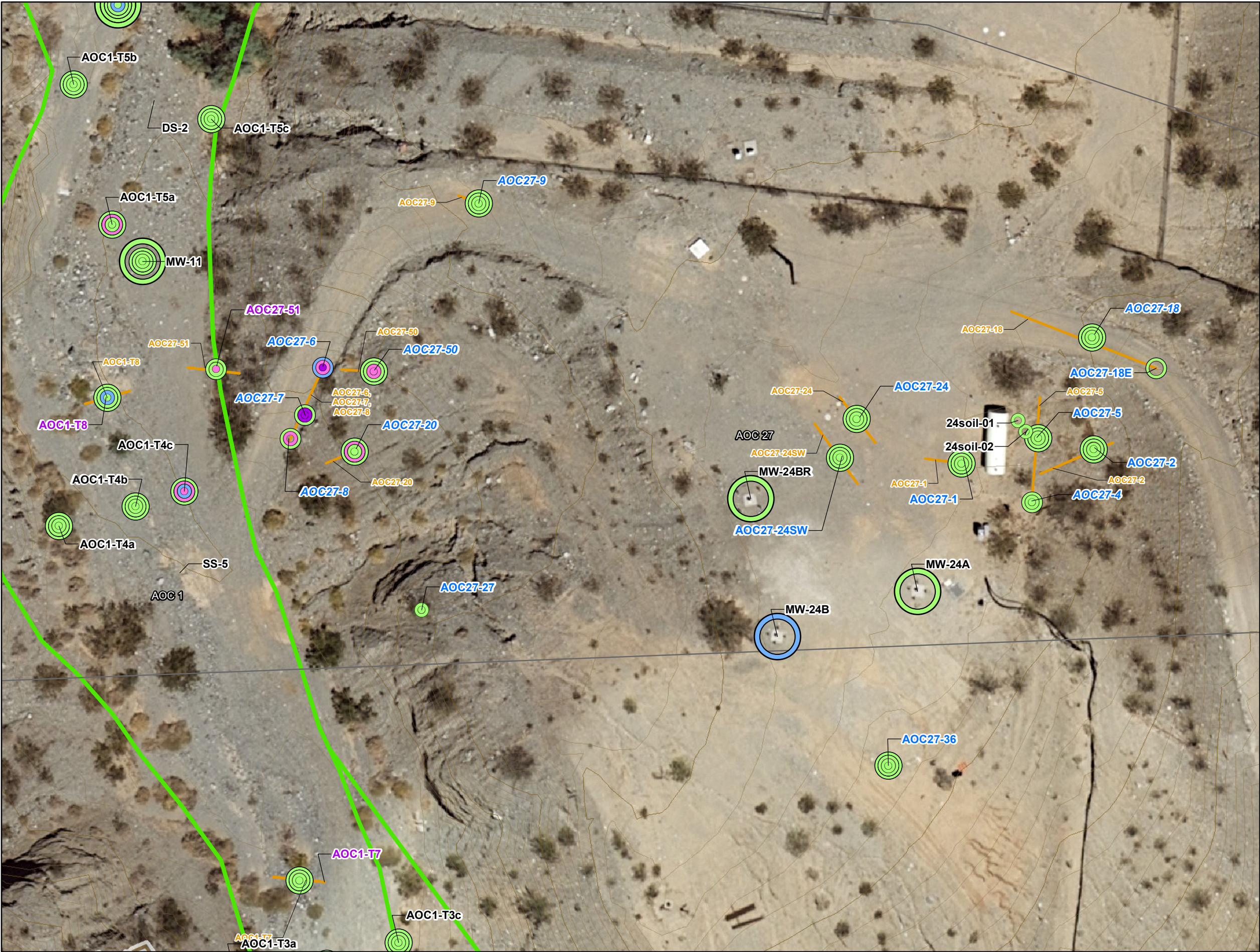
Total Chromium  
BKG 39.8 mg/kg  
ECV 36.3 mg/kg  
Residential Screening Level 36,000 mg/kg  
Commercial Screening Level 170,000 mg/kg

The Ecological Comparison Value (36.3 mg/kg) is below the background value; therefore, the screening level is set at the background value.



**Figure 3-9c**  
**Total Chromium**  
**Soil Sample Results**  
**AOC 27**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

— Property Boundary  
Area of Concern  
Solid Waste Management Unit  
Approximate Location of Stormwater Piping Below Ground  
Approximate Location of Stormwater Piping Above Ground  
Soil Trench

Depth	Concentration
0 to 1 ft bgs	<= screening level
>1 to 3 ft bgs	> background
>3 to 6 ft bgs	> ECV to <=10x ECV
>6 to 10 ft bgs	>10x ECV to <=100x ECV
>11 to 15 ft bgs	
>16 ft bgs	

**Note:**

Topographic contours shown are in 2-foot intervals

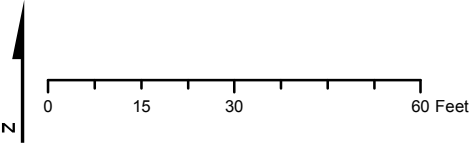
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Copper  
BKG 16.8 mg/kg  
ECV 20.6 mg/kg  
Residential Screening Level 3,100 mg/kg  
Commercial Screening Level 47,000 mg/kg



**Figure 3-9d**  
**Copper**  
**Soil Sample Results**  
**AOC 27**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

- Property Boundary
  - Area of Concern
  - Solid Waste Management Unit
  - Approximate Location of Stormwater Piping Below Ground
  - Approximate Location of Stormwater Piping Above Ground
  - Soil Trench
- | Depth            | Concentration        |
|------------------|----------------------|
| 0 to 1 ft bgs    | Non-detect           |
| >1 to 3 ft bgs   | <= screening level   |
| >3 to 6 ft bgs   | > background         |
| >6 to 10 ft bgs  | > HHSL to <=10x HHSL |
| >11 to 15 ft bgs |                      |
| >16 ft bgs       |                      |

Note:

Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

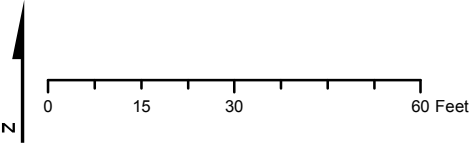
Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Lead  
BKG 8.39 mg/kg  
ECV 0.0166 mg/kg  
Residential Screening Level 80 mg/kg  
Commercial Screening Level 320 mg/kg

The Ecological Comparison Value (0.0166 mg/kg) is below the background value; therefore, the screening level is set at the background value.



**Figure 3-9e**  
**Lead**  
**Soil Sample Results**  
**AOC 27**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California





**LEGEND**

— Property Boundary  
Area of Concern  
Solid Waste Management Unit  
..... Approximate Location of Stormwater Piping Below Ground  
— Approximate Location of Stormwater Piping Above Ground  
— Soil Trench

Depth	Concentration
○ 0 to 1 ft bgs	○ Non-detect
○ >1 to 3 ft bgs	● > ECV to <=10x ECV
○ >3 to 6 ft bgs	● >10x ECV to <=100x ECV
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:

Topographic contours shown are in 2-foot intervals

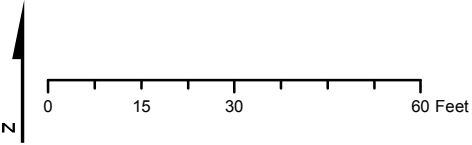
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mercury  
ECV 0.0125 mg/kg  
Residential Screening Level 1 mg/kg  
Commercial Screening Level 4.5 mg/kg

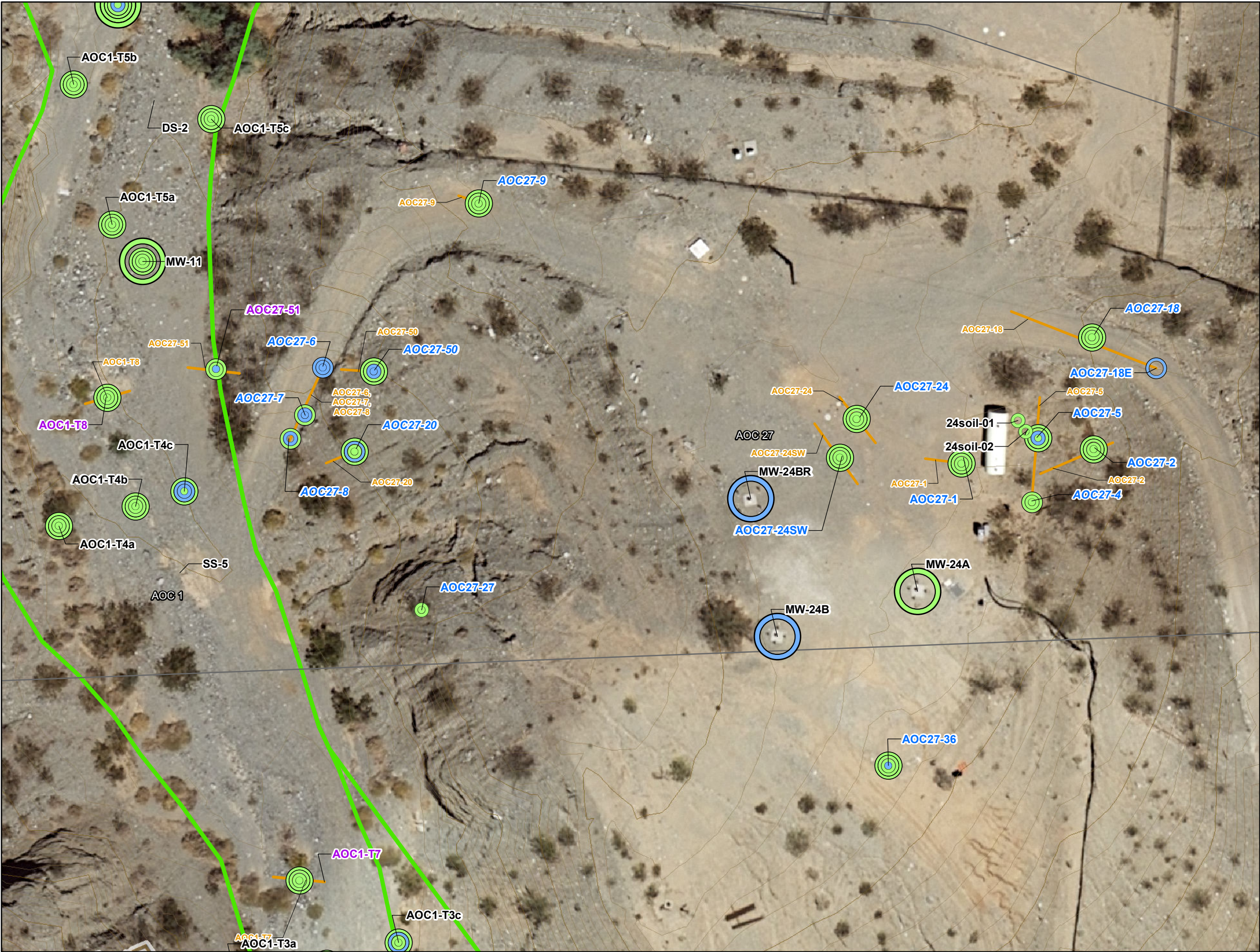


**Figure 3-9f**  
**Mercury**  
**Soil Sample Results**  
**AOC 27**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California









**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Soil Trench

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- <= screening level
- > background

**Note:**

Topographic contours shown are in 2-foot intervals

Locations labeled in **VIOLET** were part of the 2017 data.

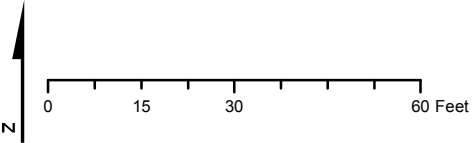
Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

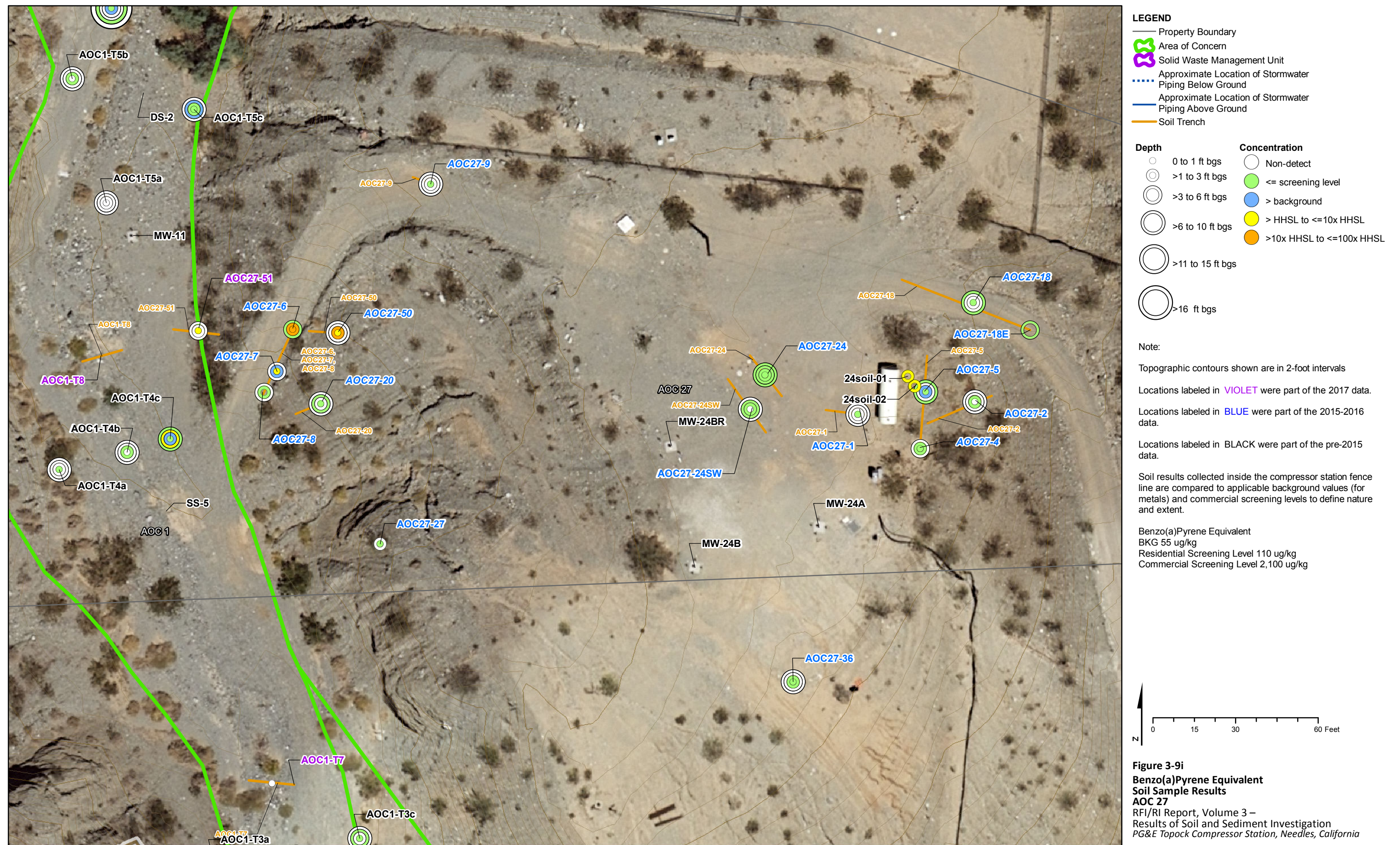
Zinc  
BKG 58 mg/kg  
ECV 0.164 mg/kg  
Residential Screening Level 23,000 mg/kg  
Commercial Screening Level 350,000 mg/kg

The Ecological Comparison Value (0.164 mg/kg) is below the background value; therefore, the screening level is set at the background value.

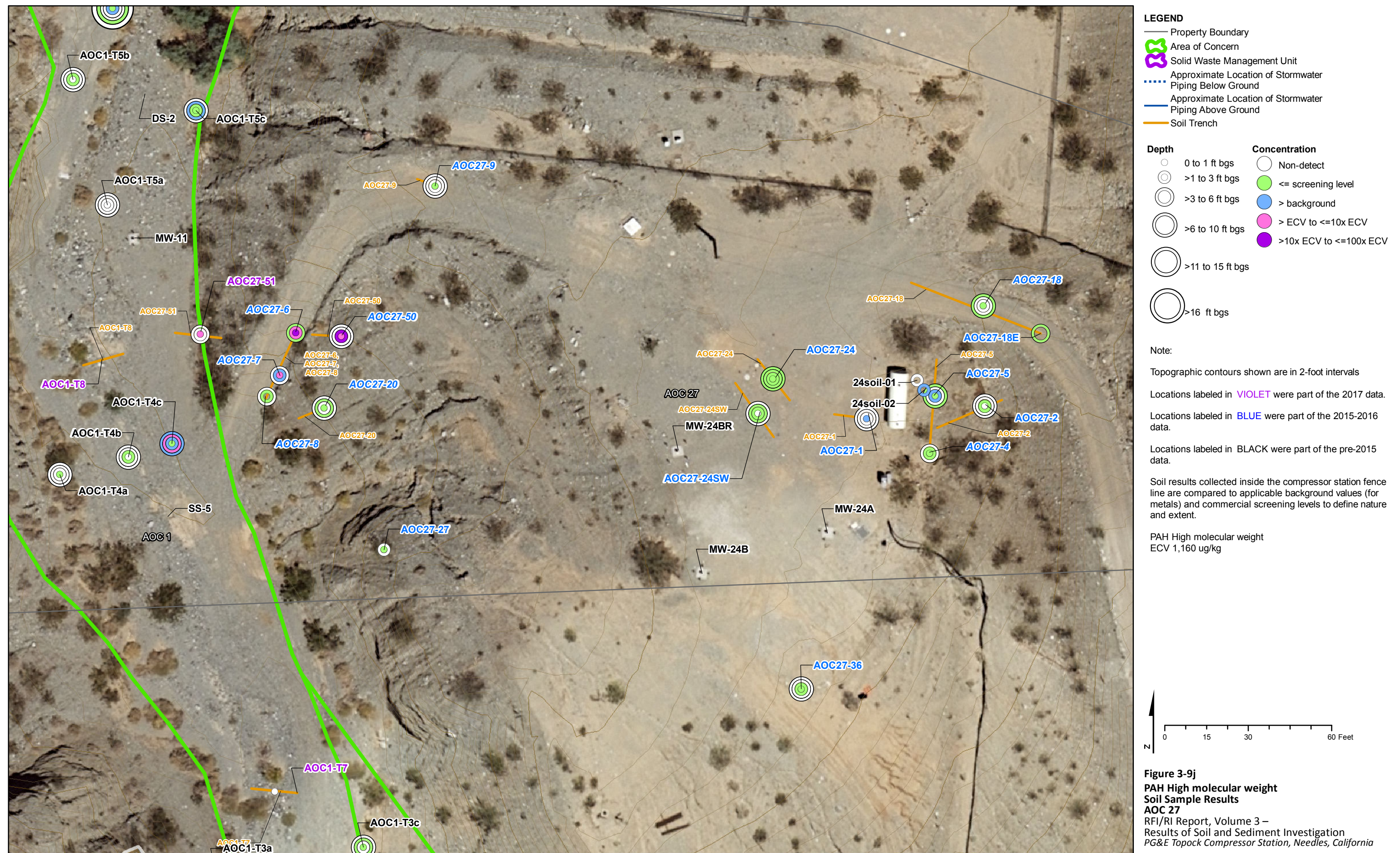


**Figure 3-9h**  
**Zinc**  
**Soil Sample Results**  
**AOC 27**  
RFI/RI Report, Volume 3 –  
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PG&E Topock Compressor Station, Needles, California





















**LEGEND**

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Soil Trench

**Depth**

- 0 to 1 ft bgs
- >1 to 3 ft bgs
- >3 to 6 ft bgs
- >6 to 10 ft bgs
- >11 to 15 ft bgs
- >16 ft bgs

**Concentration**

- Non-detect
- <= screening level
- > background

**Note:**

Topographic contours shown are in 2-foot intervals

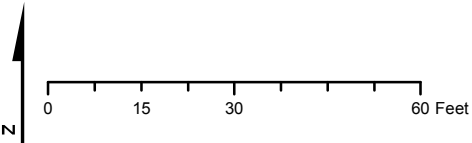
Locations labeled in **VIOLET** were part of the 2017 data.

Locations labeled in **BLUE** were part of the 2015-2016 data.

Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Mammal Dioxins and Furans Toxicity Equivalency Quotient (TEQ)  
Background 5.58 ng/kg  
ECV 1.6 ng/kg



**Figure 3-9m**  
**Mammal Dioxins and Furans TEQ**  
**Soil Sample Results**  
**AOC 27**  
RFI/RI Report, Volume 3 –  
Results of Soil and Sediment Investigation  
PG&E Topock Compressor Station, Needles, California