

Figures

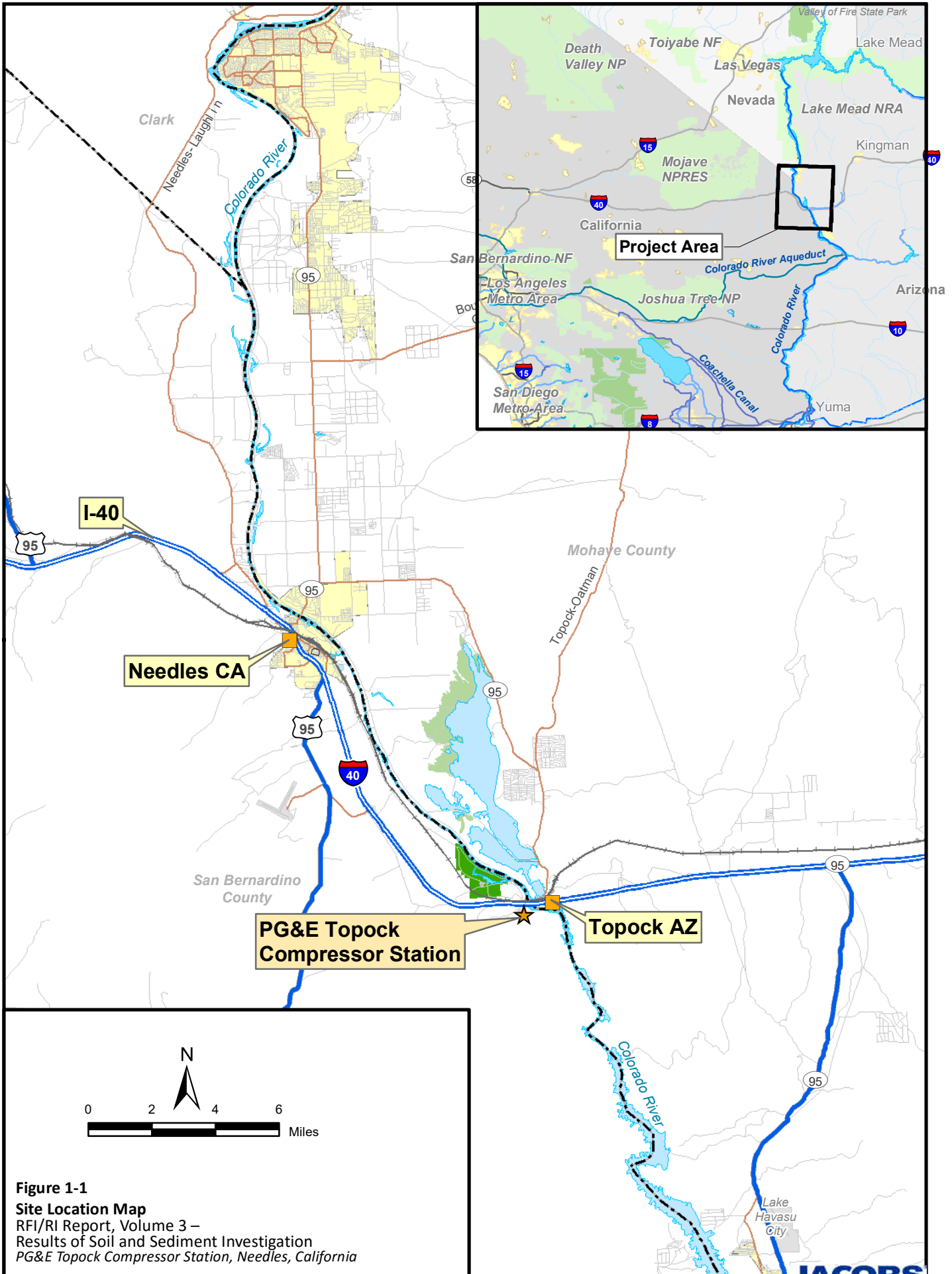
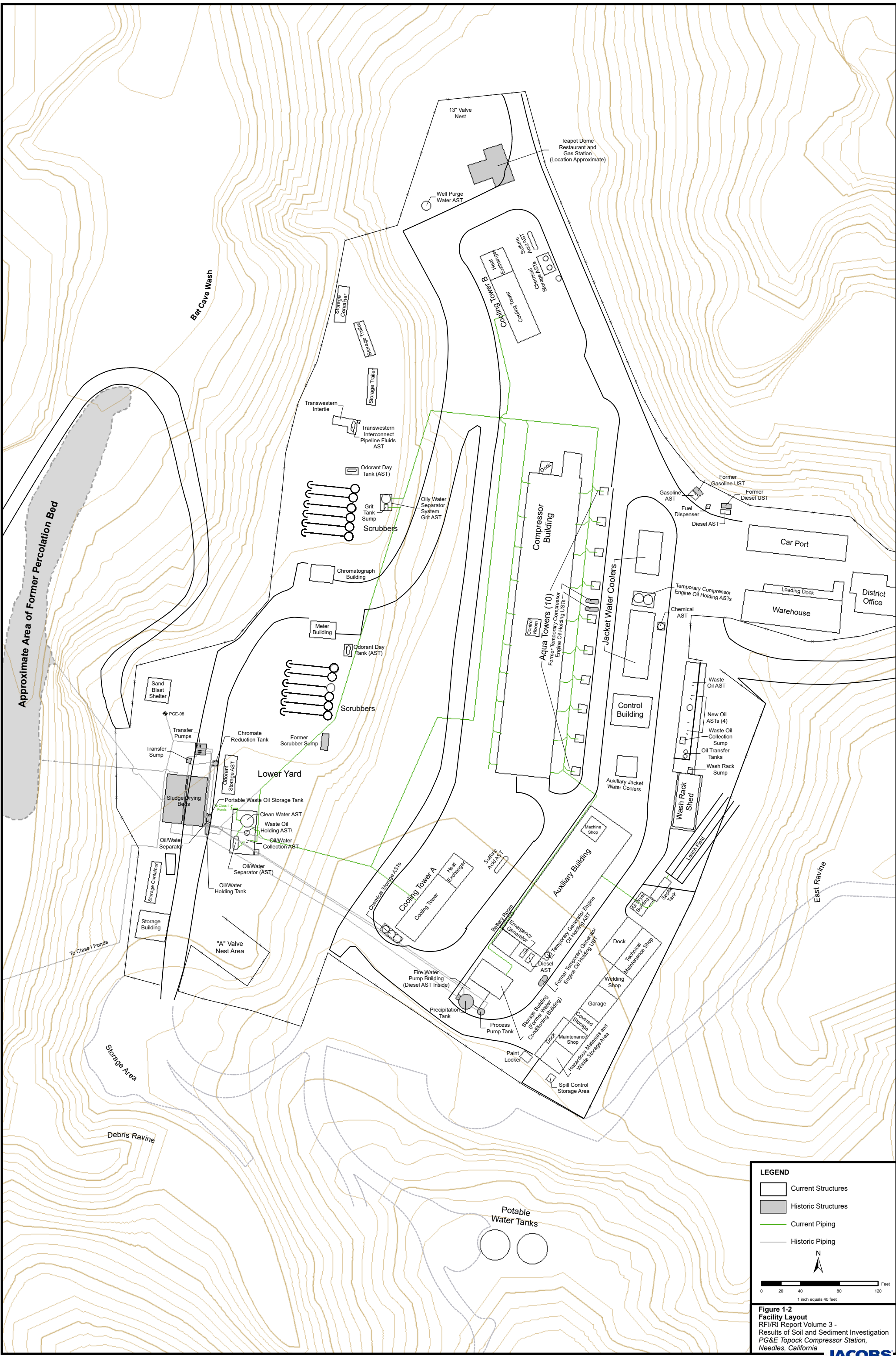


Figure 1-1
Site Location Map
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

- Current Structures
- Historic Structures
- Current Piping
- Historic Piping

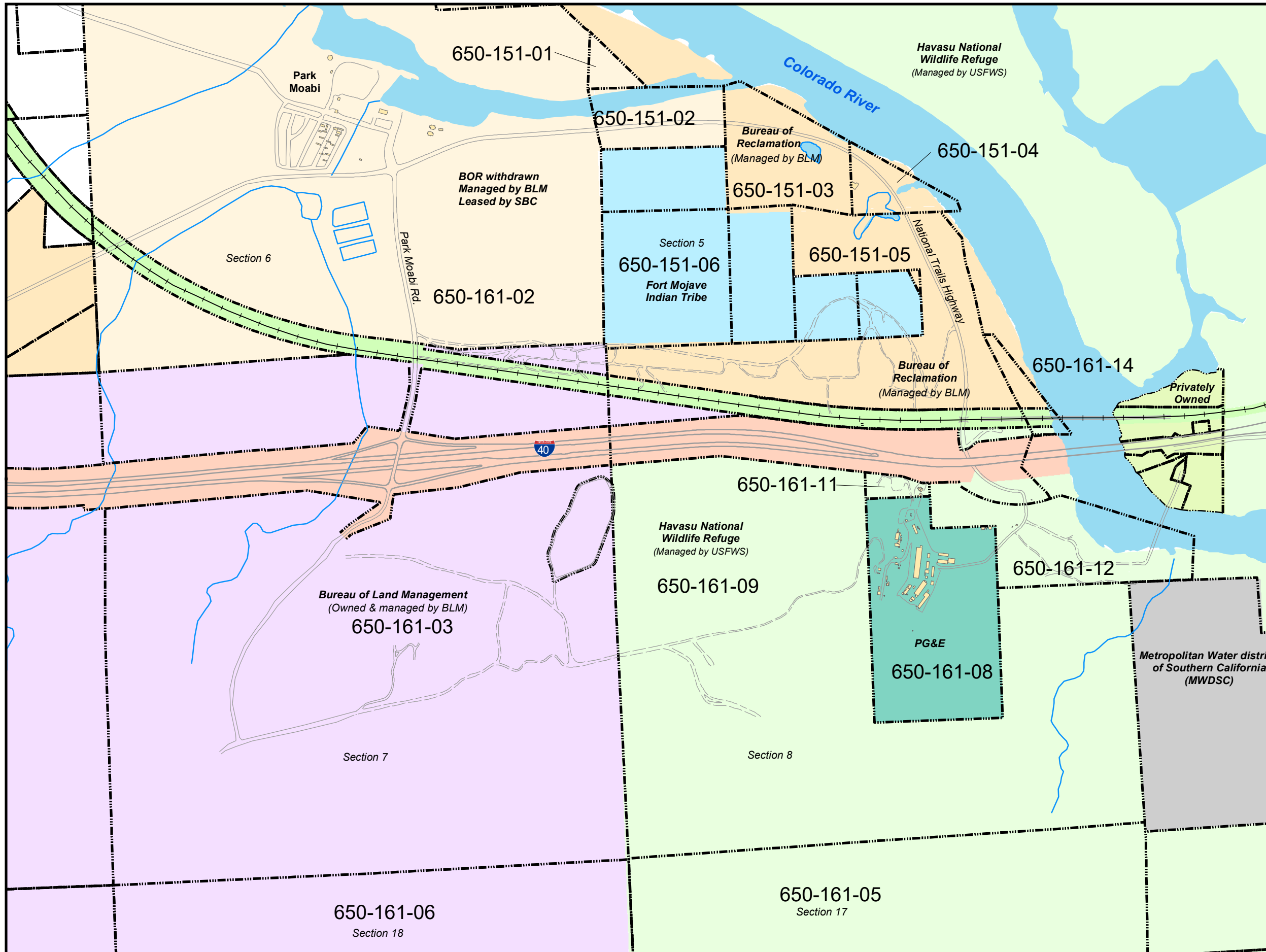
N

0 20 40 80 120 Feet

1 inch equals 40 feet

Figure 1-2
Facility Layout
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station,
 Needles, California





Legend

- +— Railroad
- Highway
- Paved Road
- - - Dirt or Gravel Road
- Stream
- ⊕ Building
- Property Owner**
- BNSF Railway
- Bureau of Land Management
- Bureau of Reclamation (managed by BLM)
- Caltrans Leased From Underlying Federal Owner
- Fort Mojave Indian Tribe Owner in Fee, With PG&E Easement and Access for Remediation
- Havasu National Wildlife Refuge
- Metropolitan Water District of Southern California
- PG&E
- Privately Owned
- San Bernadino County Leased (managed by BLM)

Note: The boundary lines shown are approximate and for reference only.

Source: San Bernadino County Assessor, Parcel quest, State Board of Equalization, Pacific Gas and Electric Company, Ecology and Environment and Plat maps provided by BLM.

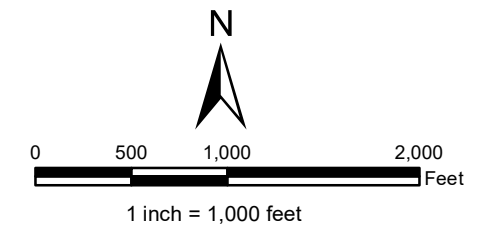
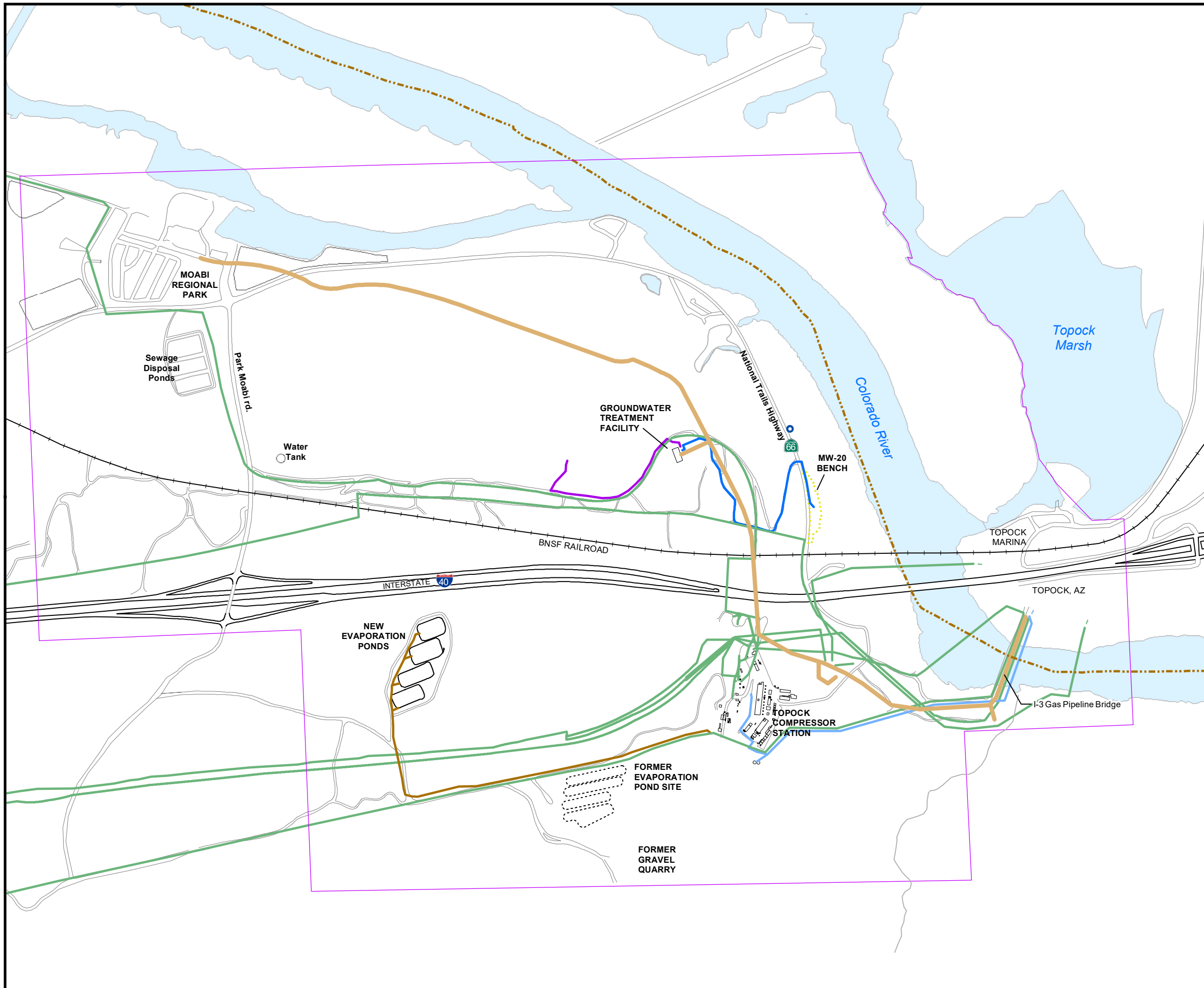


Figure 1-3
Surrounding Properties
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

- IM-3 Effluent Pipeline
- IM-3 Multi-Utility Trench
- Gas Transmission Pipeline
- Potable Water Pipeline
- Underground Wastewater Pipeline
- Overhead Electric
- Area of Potential Effect
- MW-20 Bench
- California-Arizona Border

NOTE:

The locations of pipelines and existing infrastructure are approximate. This figure is not intended to be a comprehensive depiction of all existing infrastructure in the Area of Potential Effects.

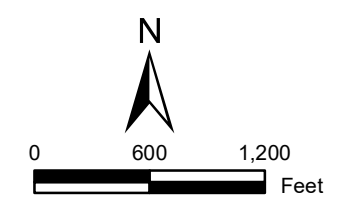
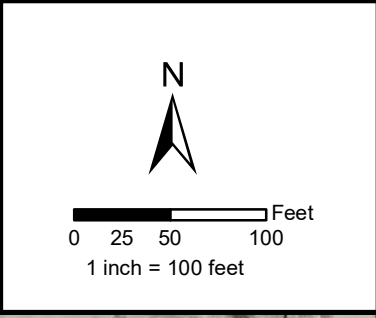
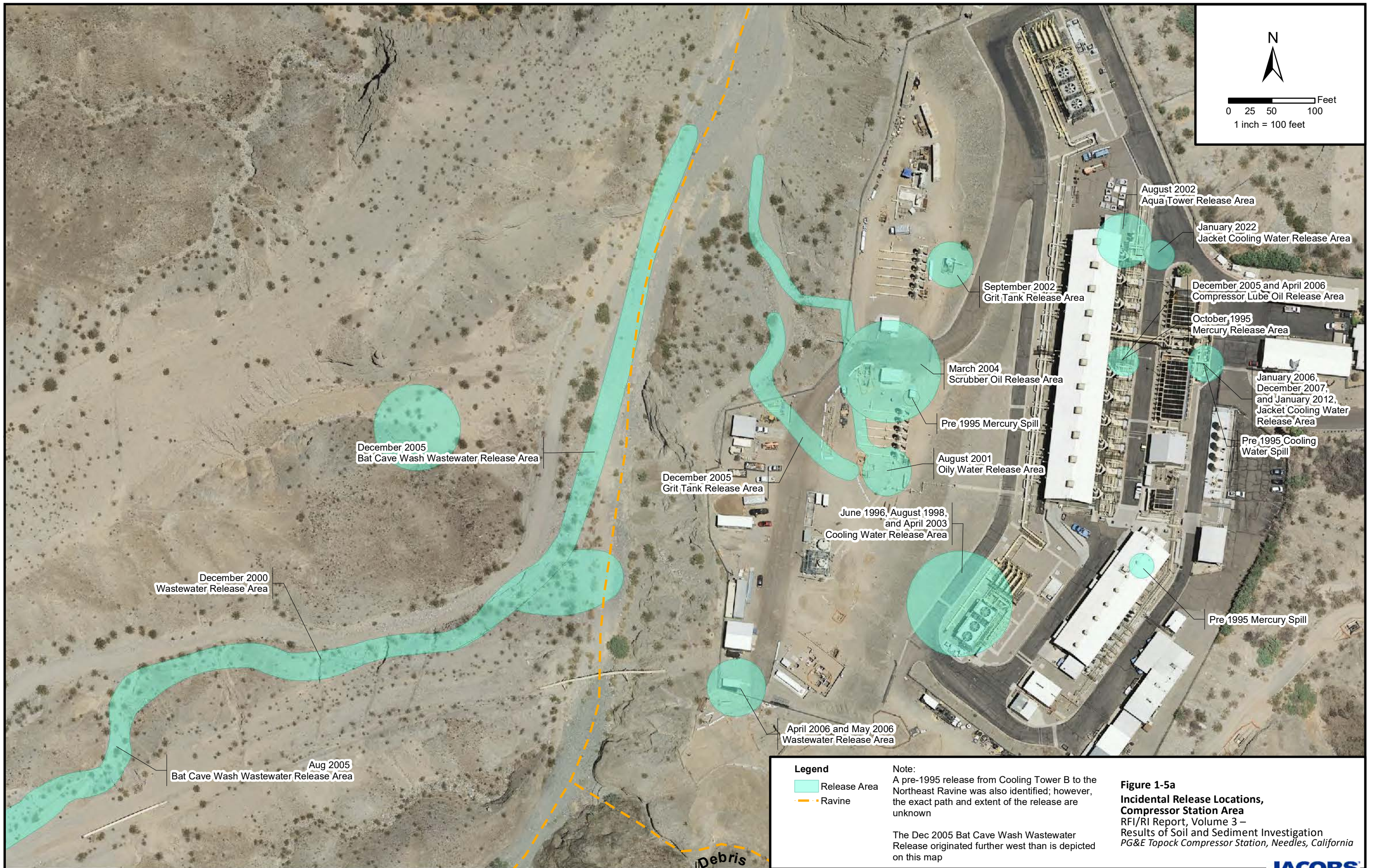


Figure 1-4
Nearby Communities and Development
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California

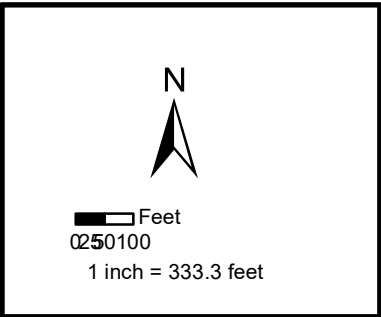


Legend
 [Green Box] Release Area
 [Orange Dashed Line] Ravine

Note:
 A pre-1995 release from Cooling Tower B to the Northeast Ravine was also identified; however, the exact path and extent of the release are unknown

The Dec 2005 Bat Cave Wash Wastewater Release originated further west than is depicted on this map

Figure 1-5a
Incidental Release Locations, Compressor Station Area
 RFI/RI Report, Volume 3 – Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



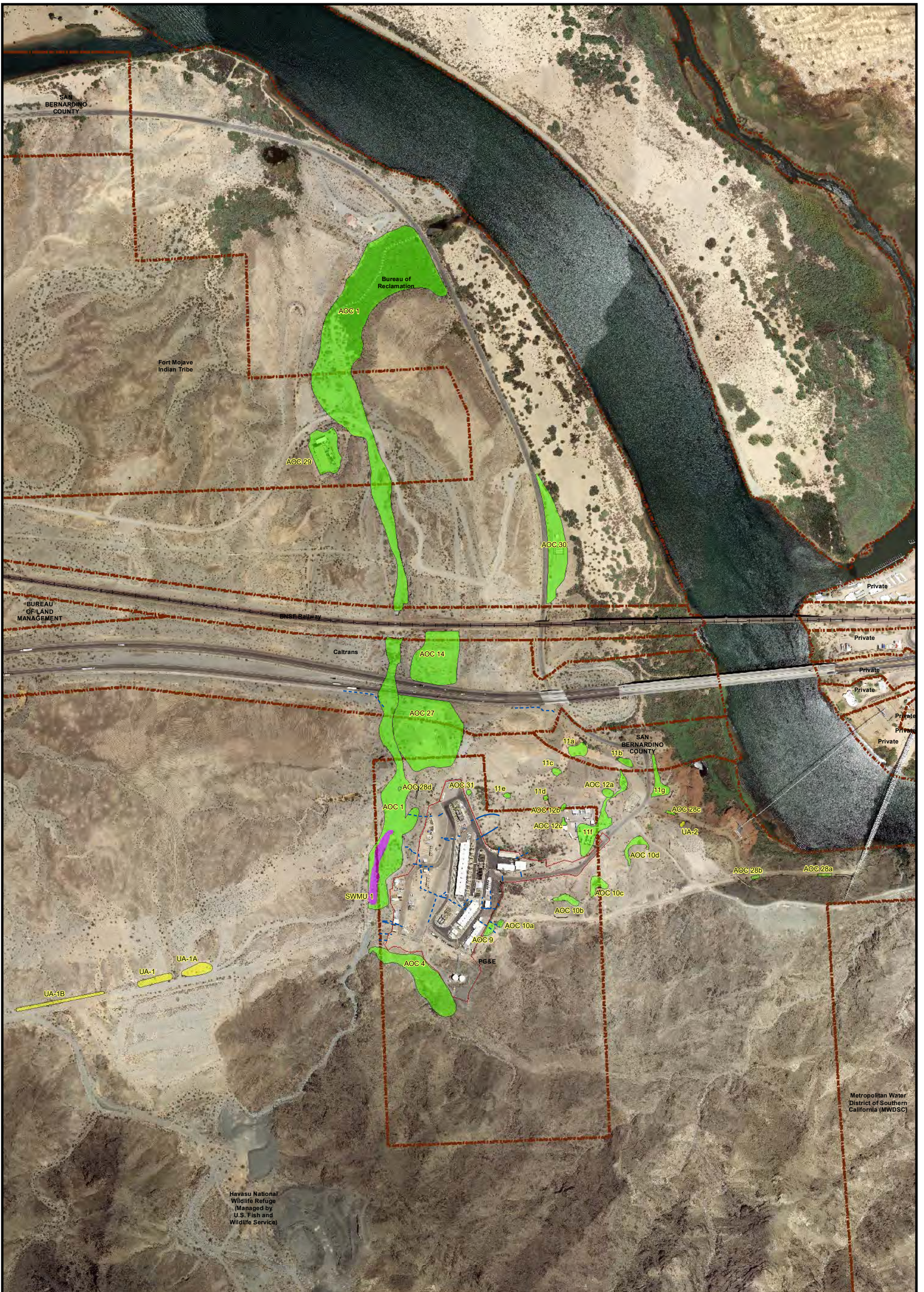
Legend

Release Area

Note:
A pre-1995 release from Cooling Tower B to the Northeast Ravine was also identified; however, the exact path and extent of the release are unknown

The Dec 2005 Bat Cave Wash Wastewater Release originated further west than is depicted on this map

Figure 1-5b
Incidental Release Locations, Expanded Area
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



- LEGEND**
- Area of Concern (AOC)
 - Solid Waste Management Unit (SWMU)
 - Unidentified Area (UA)
 - Stormwater Piping Below Ground
 - Stormwater Piping Above Ground
 - Topock Compressor Station Fence Line
 - Parcel Boundaries

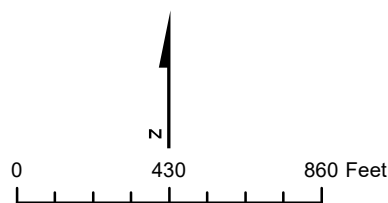
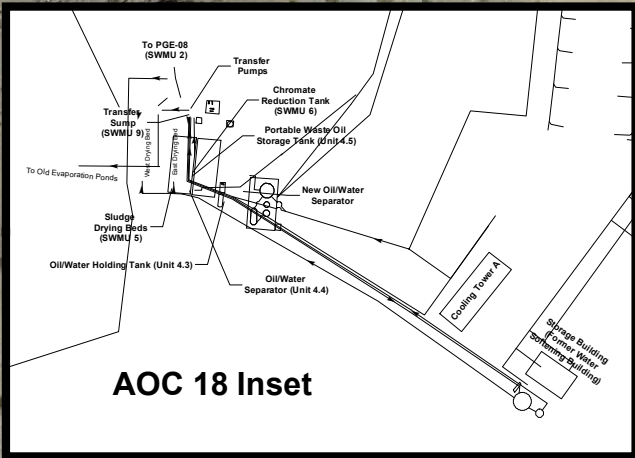
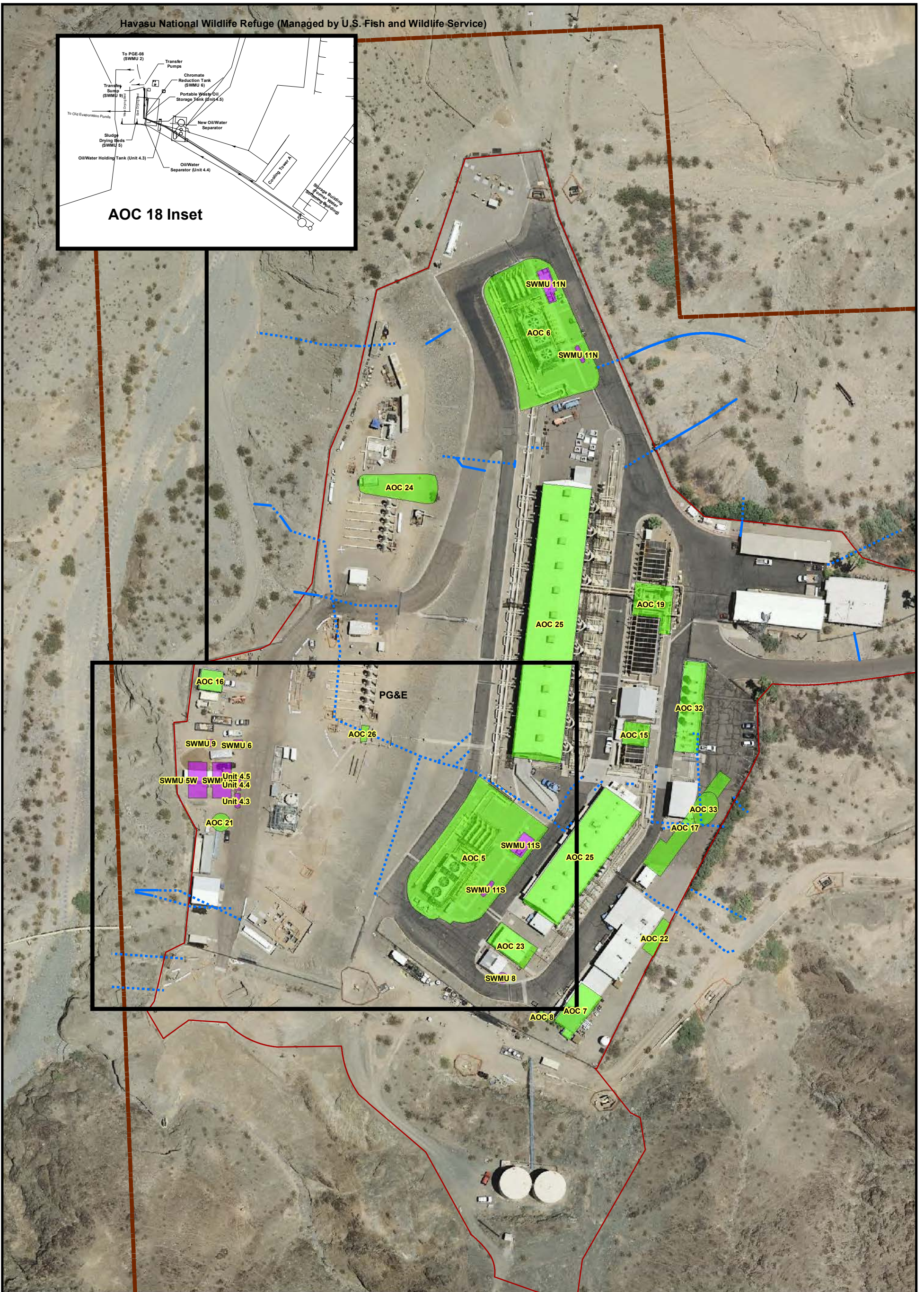


Figure 2-1
Solid Waste Management Units, Areas of Concern, and Other Unidentified Areas to be Investigated Under Part A
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



AOC 18 Inset



LEGEND

- Area of Concern (AOC)
- Solid Waste Management Unit (SWMU)
- Stormwater Piping Above Ground (Approximate Location)
- Stormwater Piping Below Ground (Approximate Location)
- Topock Compressor Station Fence Line
- Parcel Boundary

Notes:

- 1) AOC 13 is not depicted on this figure. It consists of the unpaved areas within the compressor station.
- 2) AOC 20 is not depicted on this figure. It consists of industrial floor drains within the compressor station.
- 3) Boundaries of all SWMUs, AOCs, and Other Areas are approximate.

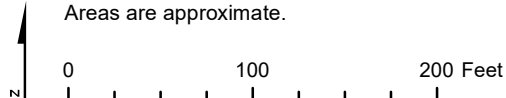
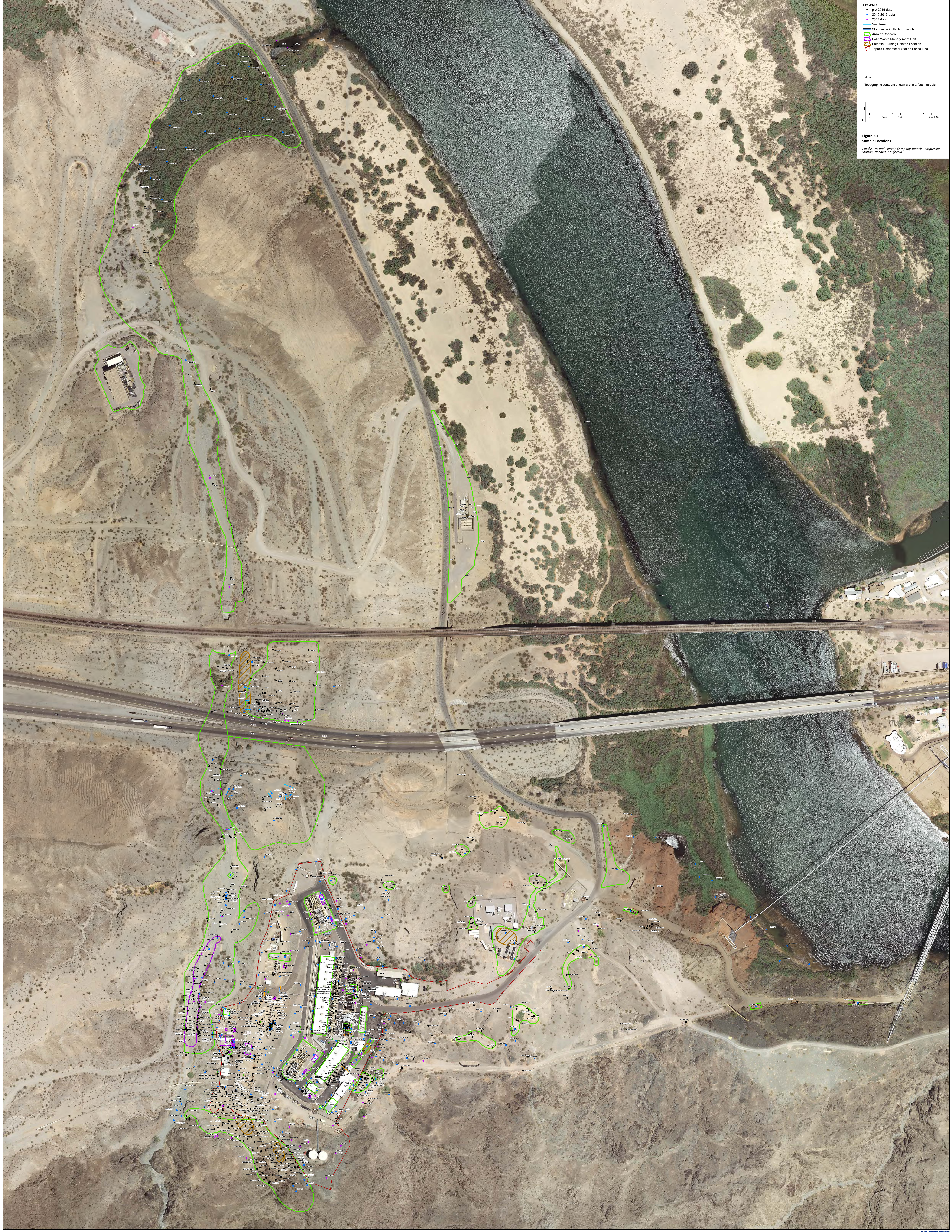


Figure 2-2
Part B Investigation Areas
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

- pre-2015 data
- 2015-2016 data
- 2017 data
- Soil Trench
- Stormwater Collection Trench
- Area of Concern
- Solid Waste Management Unit
- Potential Burning Related Location
- Topock Compressor Station Fence Line

Note:
Topographic contours shown are in 2 foot intervals

0 50 100 200 Feet

Figure 3-1
Sample Locations
Noble Gas and Electric Company 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

- Depth Unknown
- 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 (Part A)

- Non-detect

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

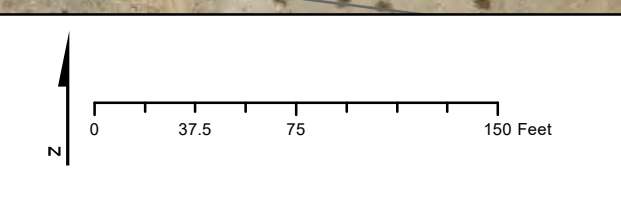


Figure 3-2a
Antimony
Soil Sample Results
AOC 1 North
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background (ISL)
- > ECV to ≤ 10x ECV

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

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

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

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

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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 screening level is set at the background value.



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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background <= HHSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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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.

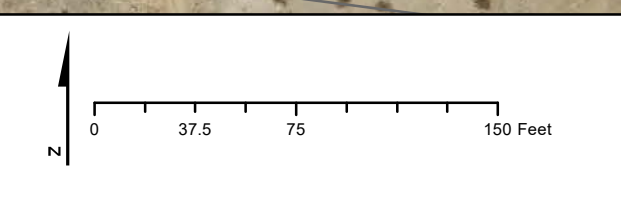


Figure 3-2c
Barium
Soil Sample Results
AOC 1 North
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background (ISL)
- > background to ≤ HHSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

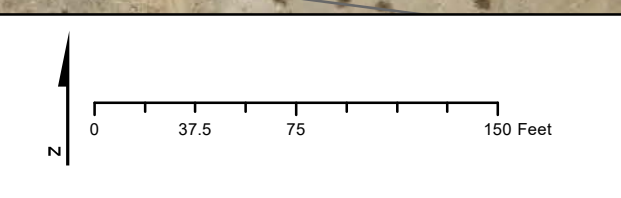


Figure 3-2d
 Cadmium
 Soil Sample Results
 AOC 1 North
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background (ISL)
- > background to ≤ ECV

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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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.

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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 values; therefore, the screening level is set at the background value.

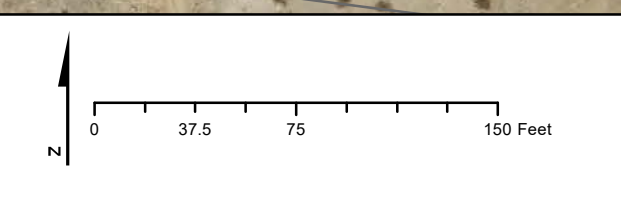


Figure 3-2e
Hexavalent Chromium
Soil Sample Results
AOC 1 North
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- >background to <= DTSC SL 100 mg/kg

Note: Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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
 Interim Screening Level 39.8 mg/kg
 DTSC Requested Screening Levels 100 mg/kg and 1,000 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.

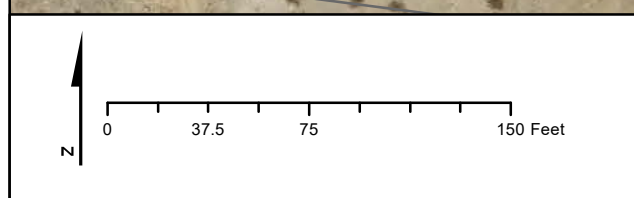


Figure 3-2f
Total Chromium
Soil Sample Results
AOC 1 North
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- ≤ background (ISL)
- > ECV to ≤ 10x ECV

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

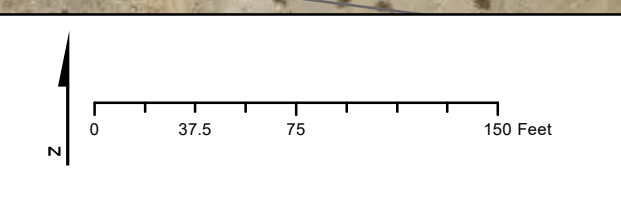


Figure 3-2g
 Cobalt
 Soil Sample Results
 AOC 1 North
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background (ISL)
- > background to ≤ ECV
- > ECV to ≤ 10x ECV

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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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 3-2h
Copper
 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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background (ISL)
- > background to ≤ HHSL

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

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

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Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

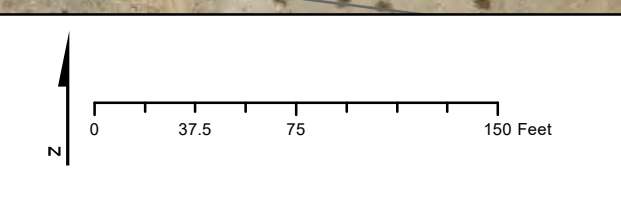


Figure 3-21
Lead
Soil Sample Results
AOC 1 North
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Non-detect

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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



Figure 3-2]
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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background (ISL)
- > background to ≤ ECV

Note:
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Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

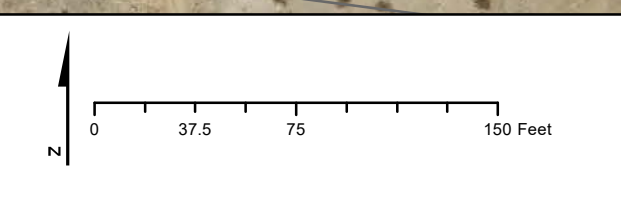


Figure 3-2k
 Molybdenum
 Soil Sample Results
 AOC 1 North
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

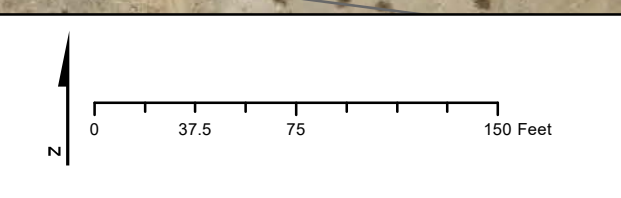


Figure 3-21
Nickel
Soil Sample Results
AOC 1 North
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Non-detect

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

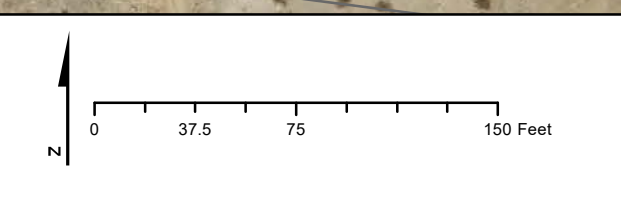


Figure 3-2m
Thallium
Soil Sample Results
AOC 1 North
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

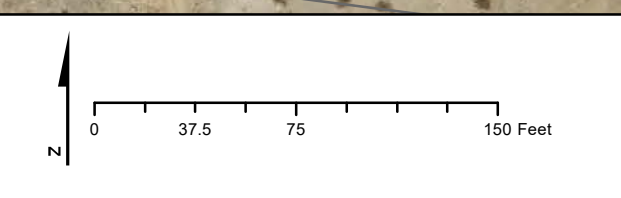


Figure 3-2n
Vanadium
 Soil Sample Results
 AOC 1 North
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background <= HHSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

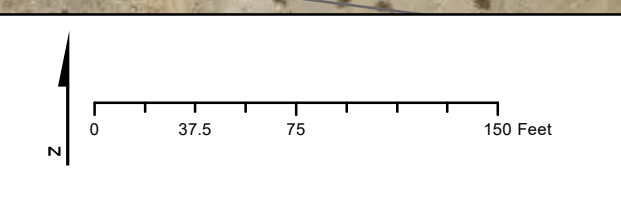


Figure 3-20
Zinc
Soil Sample Results
AOC 1 North
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background
- > background to ≤ HSSL (ISL)

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-2p
Benzo(a)Pyrene Equivalent
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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ HHSL (ISL)
- > HHSL to ≤ 10x HHSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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
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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ ECV (ISL)
- > ECV to ≤ 10x ECV

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

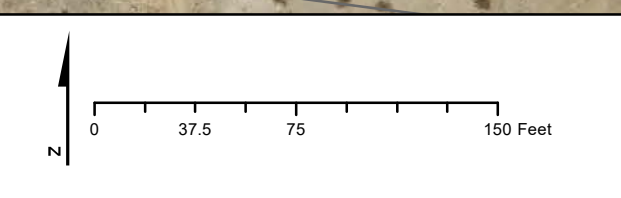


Figure 3-2r
Total PCBs
Soil Sample Results
AOC 1 North
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topack Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background
- > background to ≤ ECV (ISL)
- > ECV to ≤ 10x ECV

Concentration (Part B)

- No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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
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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background
- > background to ≤ HHSL (ISL)
- > HHSL to ≤ 10x HHSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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
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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background (ISL)
- > background to ≤10x background
- > 10x background

Concentration (Part B)

- No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

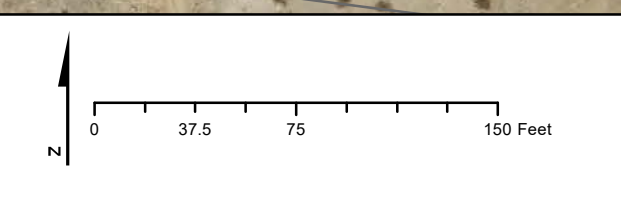


Figure 3-2u
Mammal Dioxins and Furans TEQ
Soil Sample Results
AOC 1 North
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topack Compressor Station, Needles, California

LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- > ECV to <= 10x ECV
- > 10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

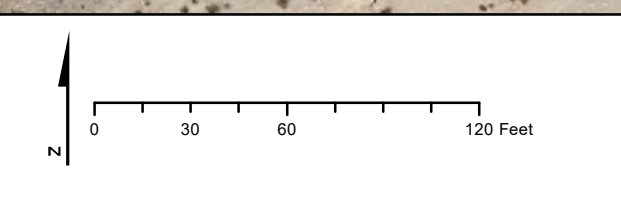


Figure 3-3a
Antimony
Soil Sample Results
AOC 1 South and SWMU 1
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topock Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background (ISL)
- > ECV to ≤ 10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 screening level is set at the background value.



Figure 3-3b
Arsenic
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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- ≤ background (ISL)
- > background to ≤ HSSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

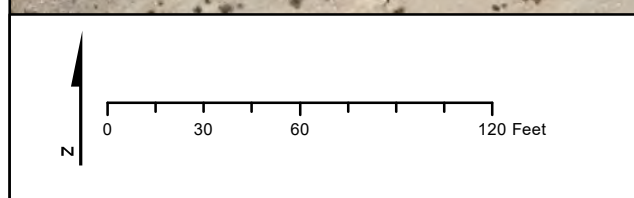


Figure 3-3c
Barium
Soil Sample Results
AOC 1 South and SWMU 1
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topock Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background (ISL)
- > background to ≤ ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL
- > CSL to ≤ 10x CSL
- > 10x CSL to ≤ 100x CSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 values; therefore, the screening level is set at the background value.



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
- Topsoil Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- <= background (ISL)
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg
- > DTSC SL 1,000 mg/kg

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg
- > DTSC SL 1,000 mg/kg

Note: Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 area 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
 Interim Screening Level 39.8 mg/kg
 DTSC Requested Screening Levels 100 mg/kg and 1,000 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.

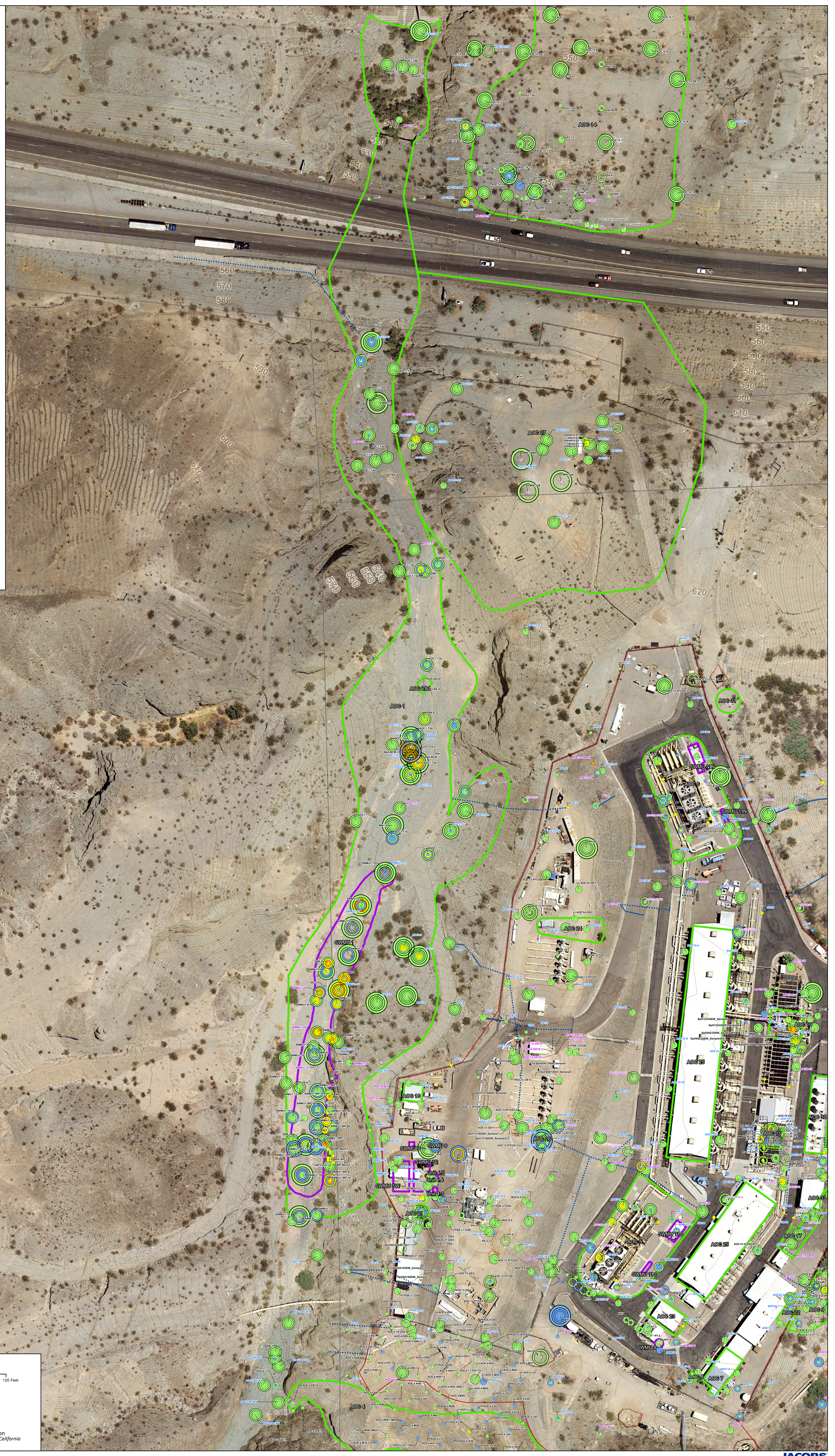


Figure 3-3f
Total Chromium
Soil Sample Results
AOC 1 South and SWMU 1
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PCB&E Topsoil Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background (ISL)
- > background to ≤ ECV
- > ECV to ≤ 10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

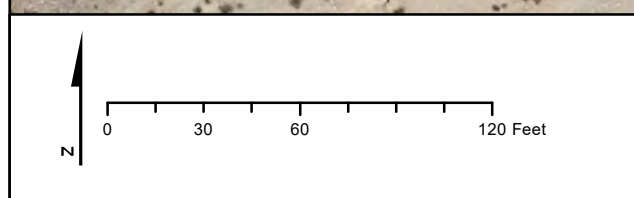


Figure 3-3g
Cobalt
Soil Sample Results
AOC 1 South and SWMU 1
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topock Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV
- >10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-3h
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

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background (ISL)
- > background to ≤ HHSL
- > HHSL to ≤ 10x HHSL
- > 10x HHSL to ≤ 100x HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL
- > CSL to ≤ 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

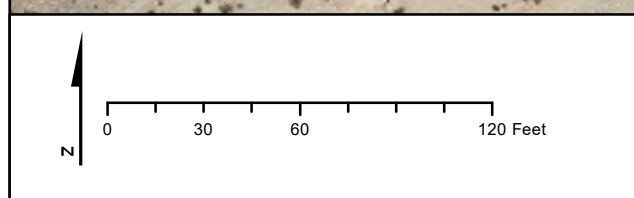


Figure 3-3i
Lead
Soil Sample Results
ACI 1 South and SWMU 1
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV
- >100x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= CSL
- > CSL to <= 10x CSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-3]
Mercury
Soil Sample Results
ACI 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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background (ISL)
- > background to ≤ ECV
- > ECV to ≤ 10x ECV
- >10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-3k
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

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background (ISL)
- > background to ≤ HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-31
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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- > HHSL to \leq ECV
- > ECV to \leq 10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- \leq CSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

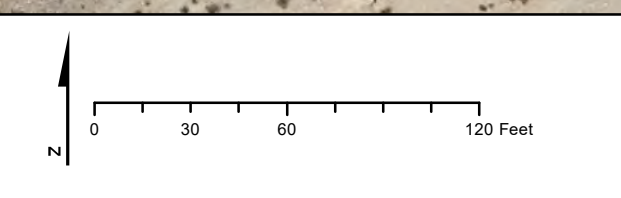


Figure 3-3m
Thallium
Soil Sample Results
AOC 1 South and SWMU 1
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topock Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- <= background (ISL)
- > background to <= HSSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

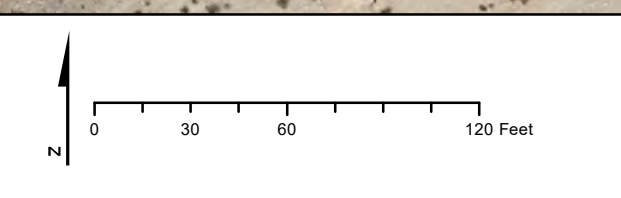


Figure 3-3n
 Vanadium
 Soil Sample Results
 AOC 1 South and SWMU 1
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- ≤ background (ISL)
- > background to ≤ HSSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

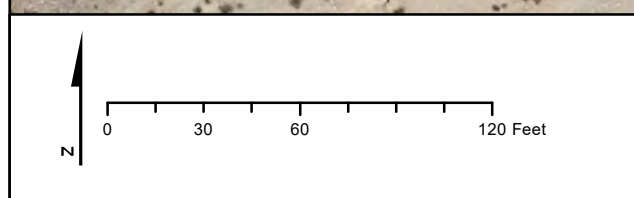


Figure 3-30
Zinc
Soil Sample Results
AOC 1 South and SWMU 1
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topock Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ HHSL (ISL)
- > HHSL to ≤ 10x HHSL
- > 10x HHSL to ≤ 100x HHSL
- > 100x HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL
- > CSL to ≤ 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-3p
Benzo(a)Pyrene Equivalent
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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ HHSLS (ISL)
- > HHSLS to ≤ 10x HHSLS

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ CSL
- > CSL to ≤ 10x CSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

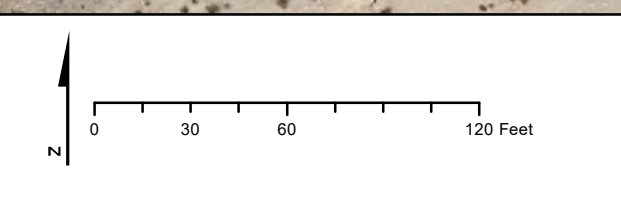


Figure 3-3q
Aroclor 1254
Soil Sample Results
AOC 1 South and SWMU 1
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&E Topock Compressor Station, Needles, California

LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ ECV (ISL)
- > ECV to ≤ 10x ECV
- > 10x ECV

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

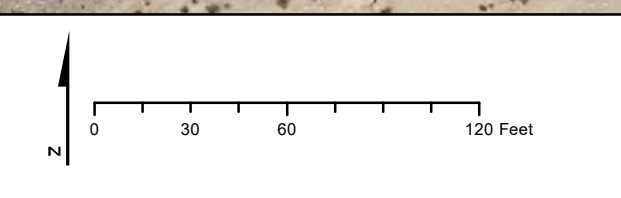


Figure 3-3r
Total PCBs
Soil Sample Results
AOC 1 South and SWMU 1
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&Z Topsoil Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ ECV (ISL)
- > ECV to ≤ 10x ECV
- > 10x ECV to ≤ 100x ECV
- > 100x ECV

Concentration (Part B)

- No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

Dioxins and Furans Toxicity Equivalency Quotient (TEQ)
Background 5.96 ng/kg
TEQ Avian Ecological Comparison Value 16 ng/kg

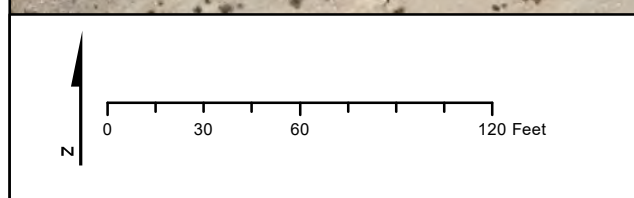


Figure 3-3s
Avian Dioxins and Furans TEQ
Soil Sample Results
AOC 1 South and SWMU 1
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PC&Z Topock Compressor Station, Needles, California

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ HHSL (ISL)
- > HHSL to ≤ 10x HHSL
- > 10x HHSL to ≤ 100x HHSL
- > 100x HHSL

Concentration (Part B)

- Non-detect
- ≤ background
- > background to ≤ CSL
- > CSL to ≤ 10x CSL
- > 100x CSL

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-3t
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

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

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- ≤ background (ISL)
- > background to <=10x background
- > 10x background

Concentration (Part B)

- No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

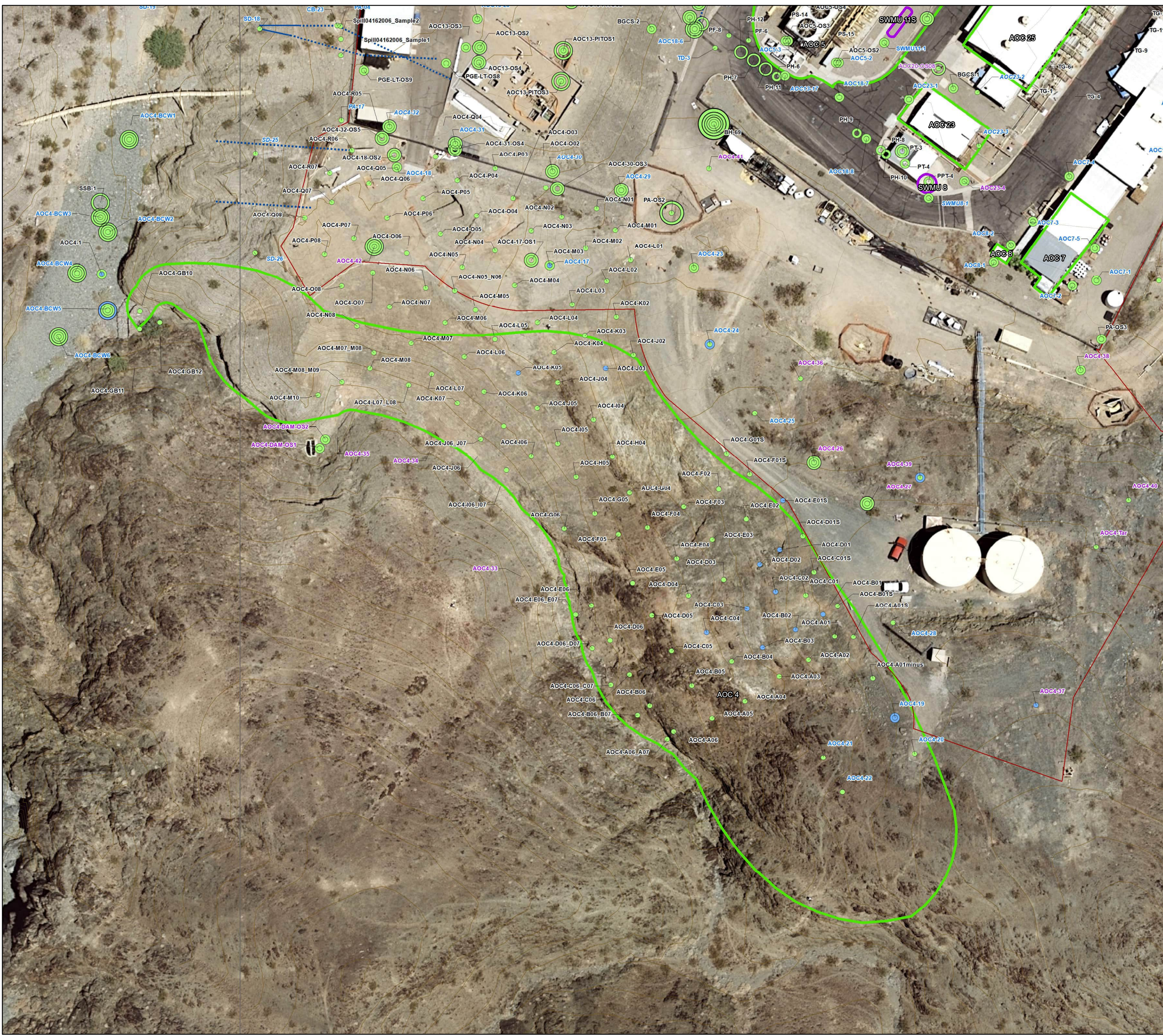
Locations labeled in **BLACK** were part of the pre-2015 data.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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



Figure 3-3u
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&Z 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

- Depth Unknown
- 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 (Part A)

- ≤ background (ISL)
- > background to ≤ HHSL

Concentration (Part B)

- ≤ background
- > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

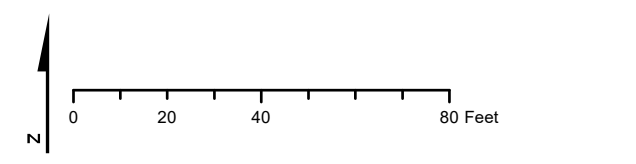


Figure 3-4a
Barium
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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	Concentration (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ ≤ background (ISL)
○ >1 to 3 ft bgs	○ > background to ≤ HHSL
○ >3 to 6 ft bgs	Concentration (Part B)
○ >6 to 10 ft bgs	○ Non-detect
○ >11 to 15 ft bgs	○ ≤ background
○ >16 ft bgs	○ > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

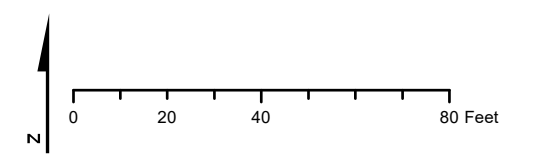
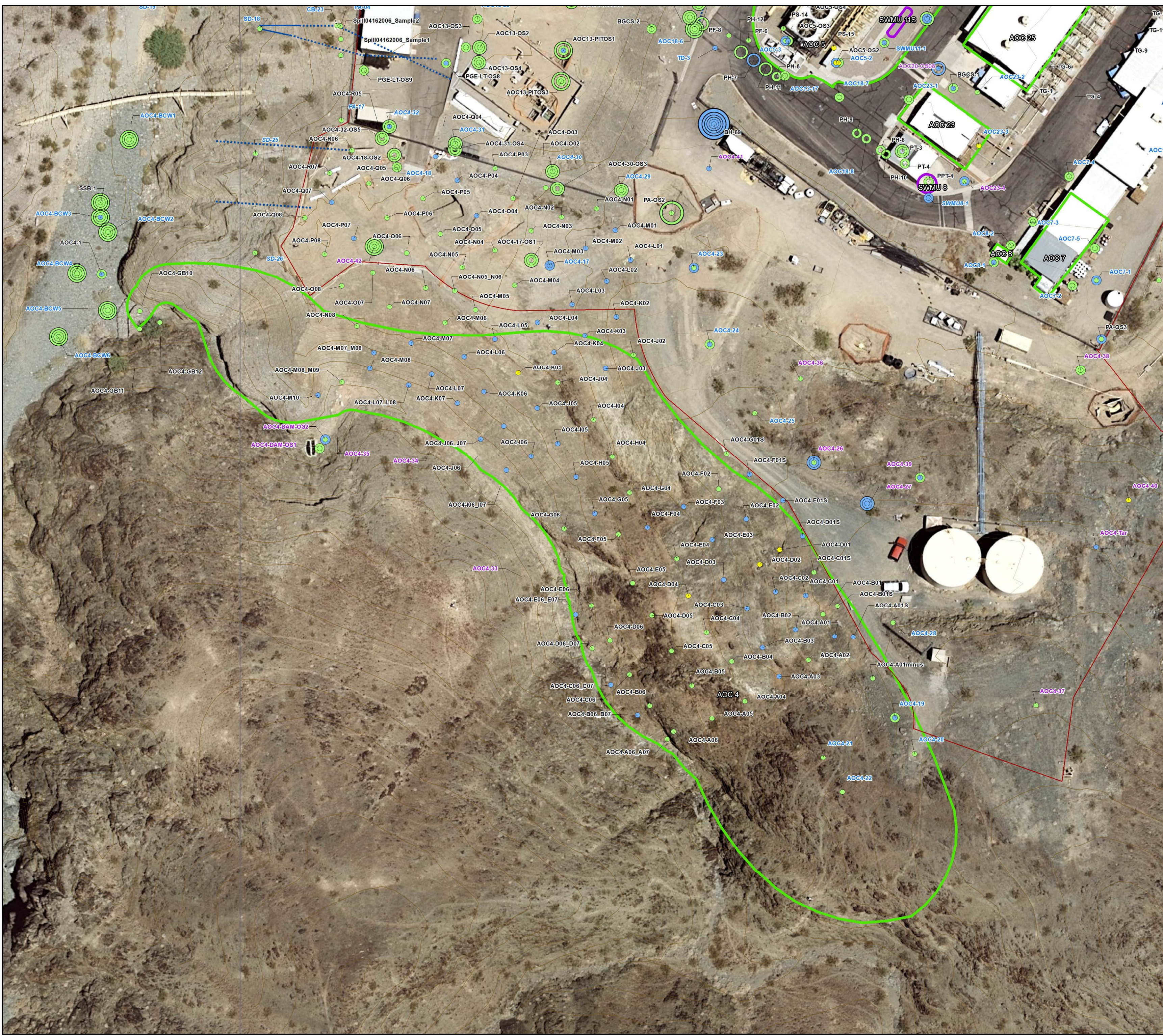


Figure 3-4b
Cadmium
Soil Sample Results
AOC 4
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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	Concentration (Part A)
□ Depth Unknown	● ≤ background (ISL)
○ 0 to 1 ft bgs	● > background to ≤ DTSC SL 100 mg/kg
○ 1 to 3 ft bgs	● > DTSC SL 100 mg/kg
○ 3 to 6 ft bgs	● ≤ background
○ 6 to 10 ft bgs	● > background to ≤ DTSC SL 100 mg/kg
○ 11 to 15 ft bgs	● > DTSC SL 100 mg/kg
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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
 Interim Screening Level 39.8 mg/kg
 DTSC Requested Screening Levels 100 mg/kg and 1,000 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.

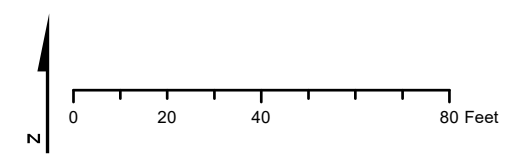
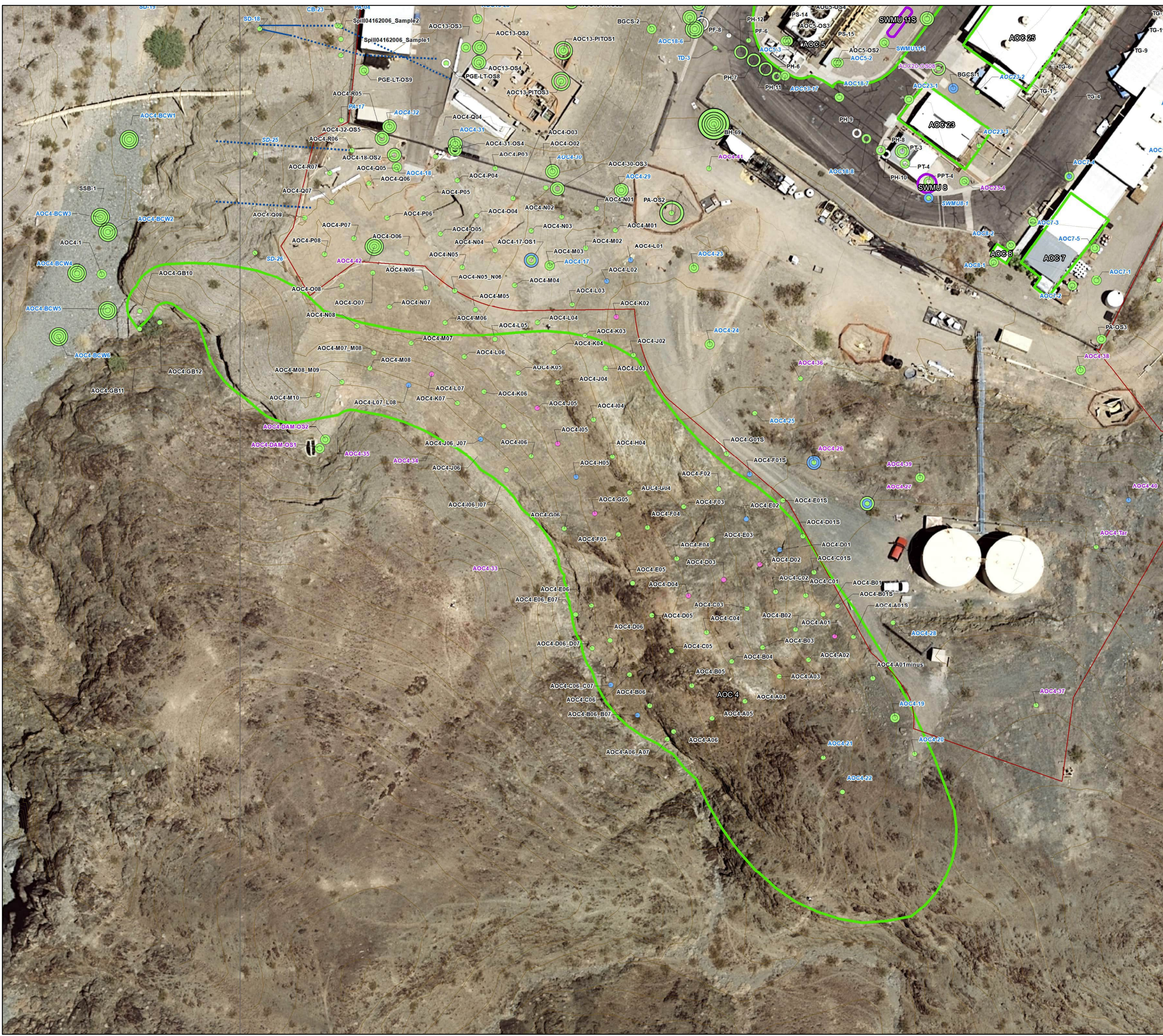


Figure 3-4c
Total Chromium
Soil Sample Results
AOC 4
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 (Part A)	Concentration (Part B)
Depth Unknown	<= background (ISL)	Non-detect
0 to 1 ft bgs	> background to <= ECV	> background to <= CSL
>1 to 3 ft bgs	> ECV to <= 10x ECV	
>3 to 6 ft bgs		
>6 to 10 ft bgs		
>11 to 15 ft bgs		
>16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

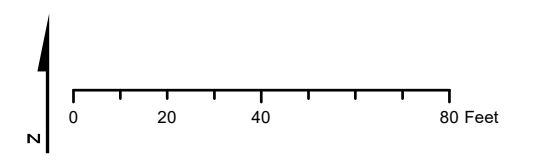
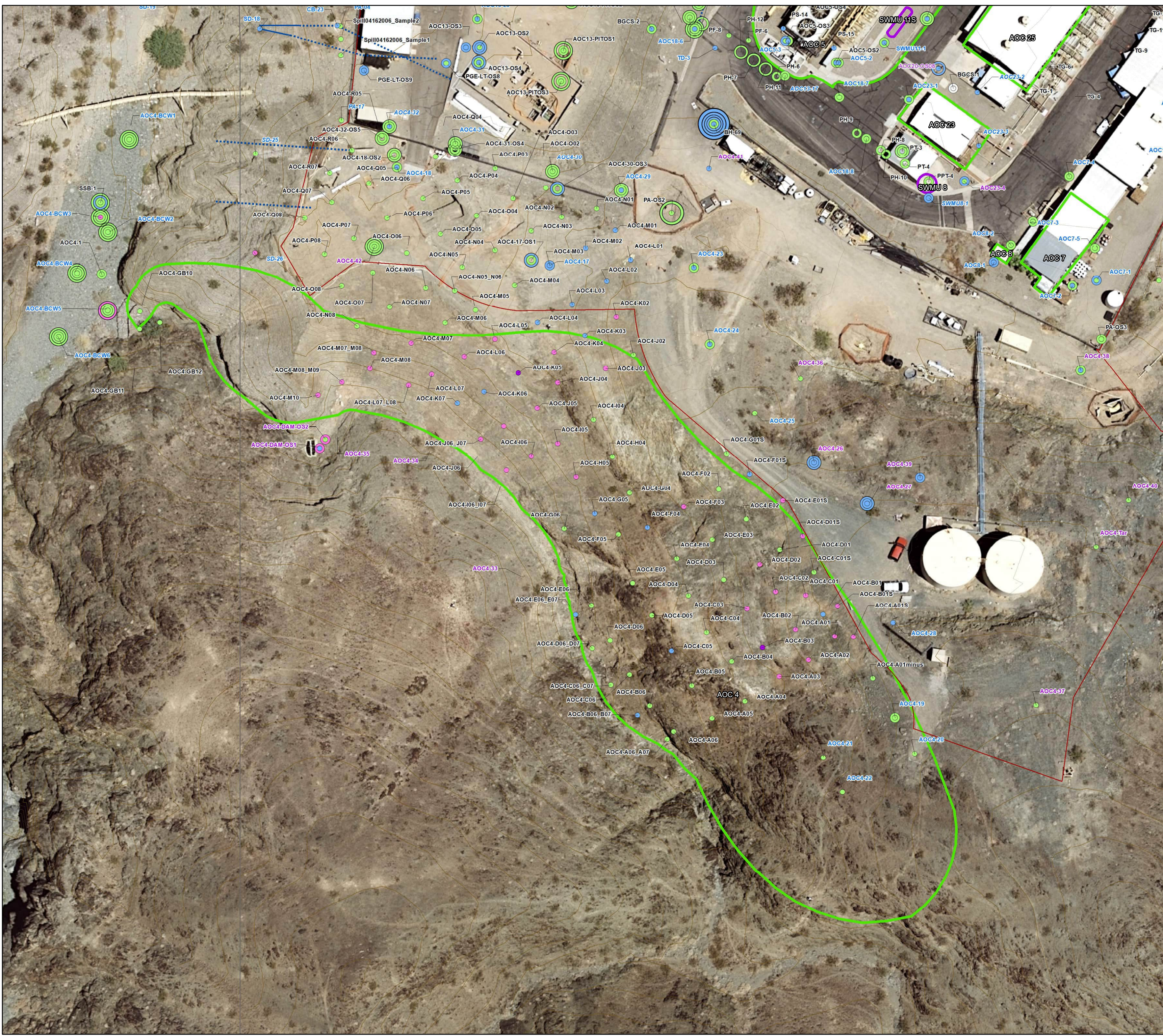


Figure 3-4d
Cobalt
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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 (Part A)	Concentration (Part B)
Depth Unknown	Green circle: <= background (ISL)	White circle: Non-detect
0 to 1 ft bgs	Blue circle: > background to <= ECV	Light green circle: <= background
>1 to 3 ft bgs	Pink circle: > ECV to <= 10x ECV	Blue circle: > background to <= CSL
>3 to 6 ft bgs	Purple circle: >10x ECV	
>6 to 10 ft bgs		
>11 to 15 ft bgs		
>16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

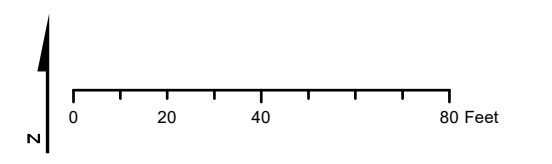
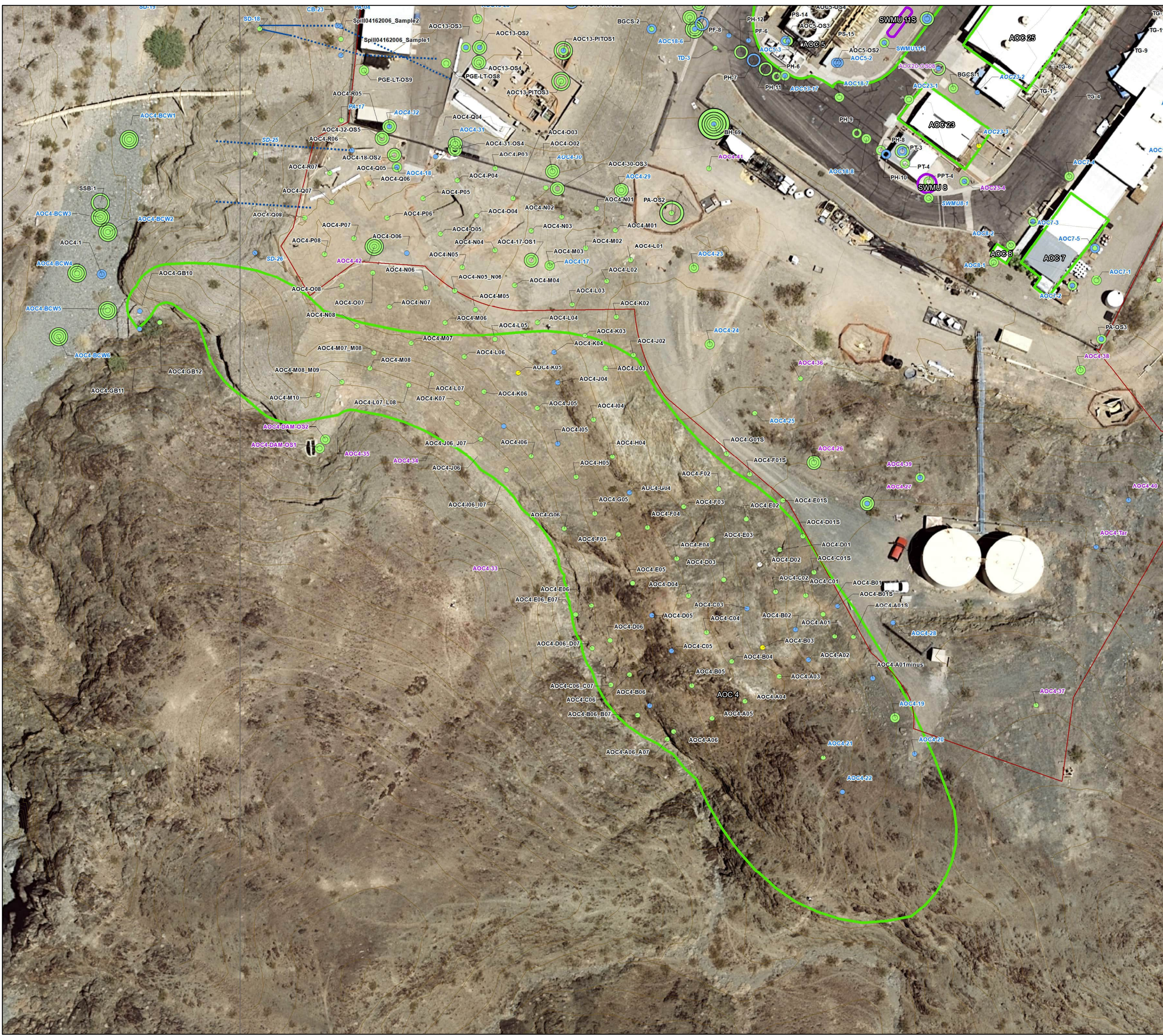


Figure 3-4e
Copper
Soil Sample Results
AOC 4
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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		Concentration (Part A)	
□	Depth Unknown	○	Non-detect
○	0 to 1 ft bgs	○	<= background (ISL)
○	>1 to 3 ft bgs	○	> background to <= HHSL
○	>3 to 6 ft bgs	○	> HHSL to <= 10x HHSL
○	>6 to 10 ft bgs	○	Concentration (Part B)
○	>11 to 15 ft bgs	○	<= background
○	>16 ft bgs	○	> background to <= CSL
○		○	> CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

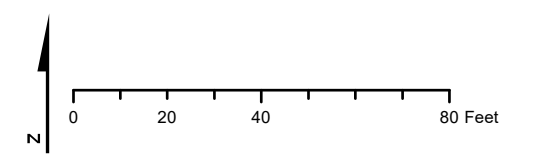


Figure 3-4f
Lead
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

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

Concentration (Part B)

- Non-detect
- <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

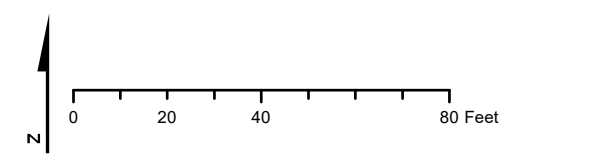


Figure 3-4g
Mercury
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



- 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**
- Depth Unknown
 - 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 (Part A)**
- ≤ background (ISL)
 - > background to ≤ HHSL
- Concentration (Part B)**
- ≤ background
 - > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

Nickel
BKG 27.3 mg/kg
ECV 0.607 mg/kg
Residential Screening Level 490 mg/kg

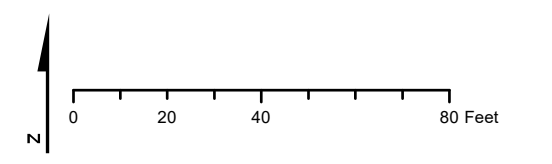
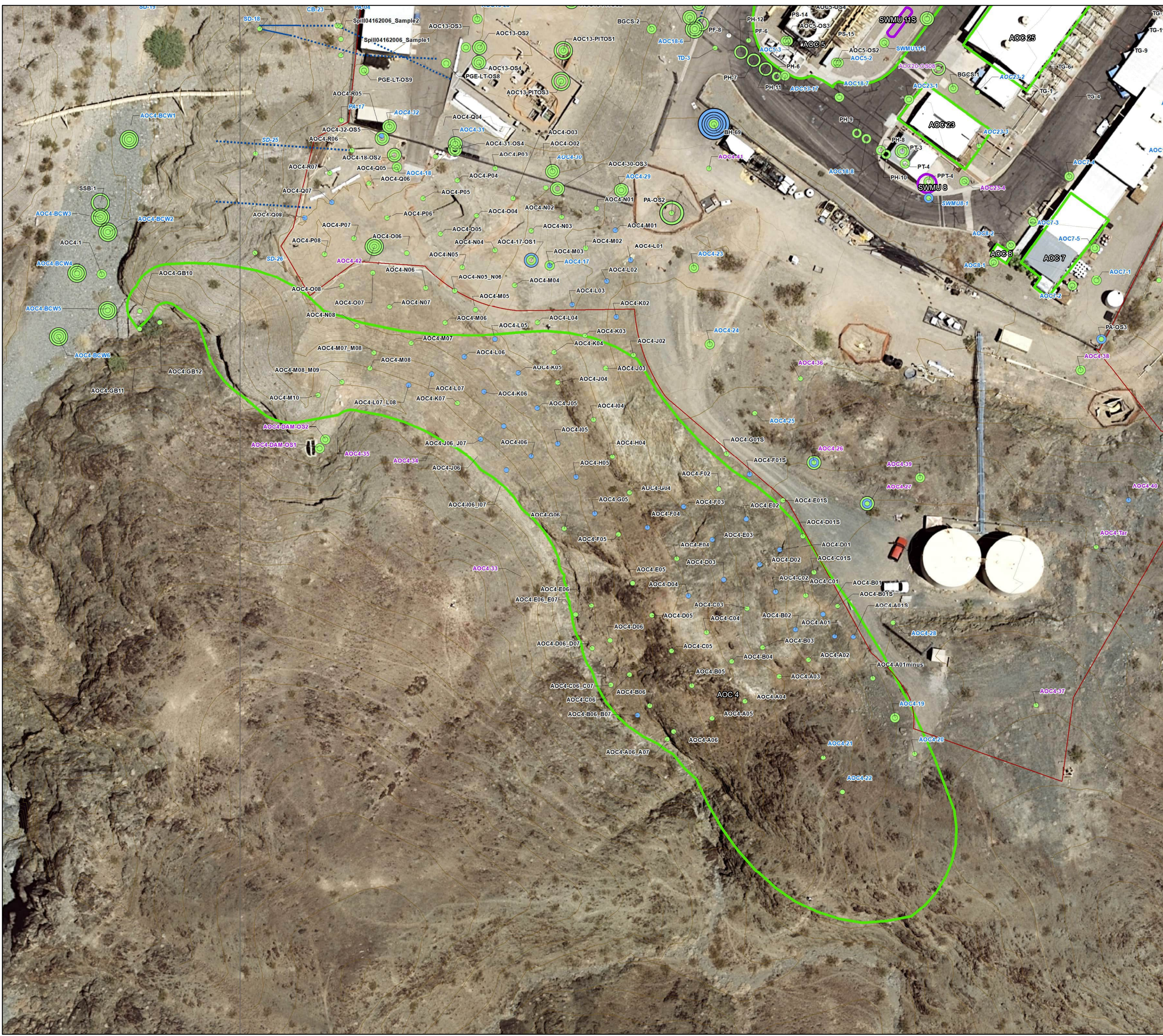


Figure 3-4h
Nickel
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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	Concentration (Part A)	Concentration (Part B)
□ Depth Unknown	● ≤ background (ISL)	○ Non-detect
○ 0 to 1 ft bgs	● > background to ≤ HHSL	● ≤ background
○ >1 to 3 ft bgs		● > background to ≤ CSL
○ >3 to 6 ft bgs		
○ >6 to 10 ft bgs		
○ >11 to 15 ft bgs		
○ >16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

Vanadium
BKG 52.2 mg/kg
ECV 13.9 mg/kg
Residential Screening Level 390 mg/kg

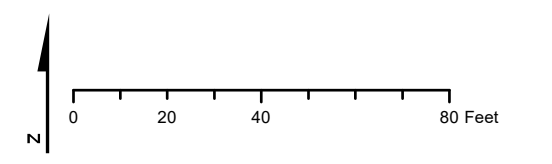
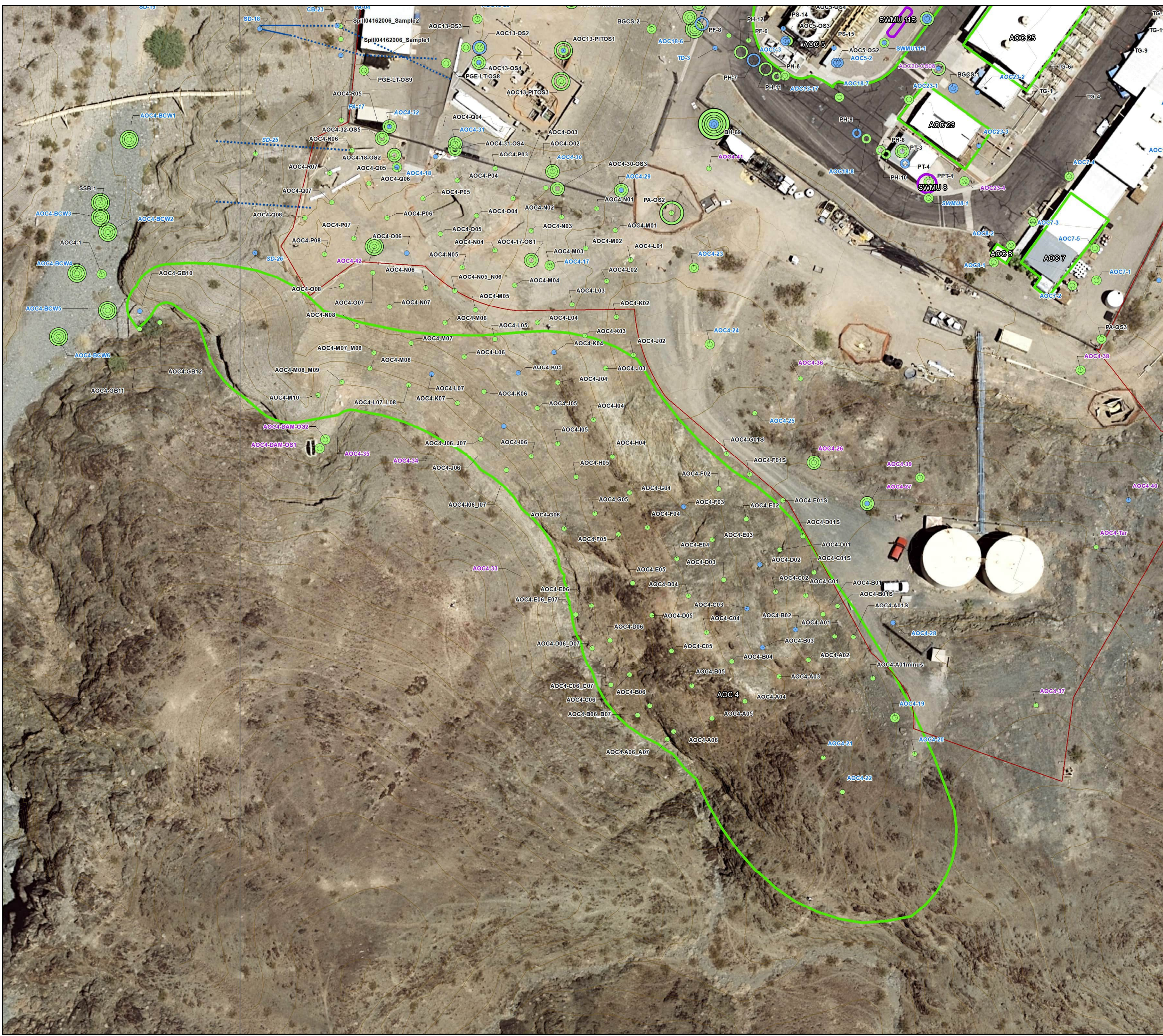


Figure 3-4i
Vanadium
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- ≤ background (ISL)
- > background to ≤ HHSL

Concentration (Part B)

- ≤ background
- > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

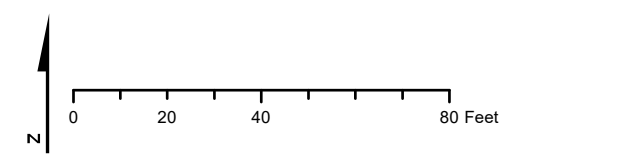


Figure 3-4j
Zinc
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)

Concentration (Part B)

- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

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Aluminum
 BKG 16,400 mg/kg
 Residential Screening Level 77,000 mg/kg
 Commercial Screening Level 1,100,000 mg/kg

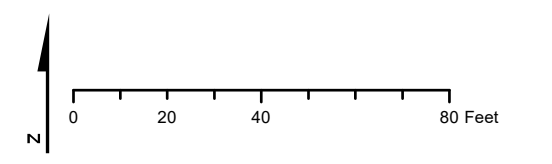


Figure 3-4k
Aluminum
Soil Sample Results
AOC 4
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 (Part A)	Concentration (Part B)
Depth Unknown	Green circle	Green circle
0 to 1 ft bgs	Small green circle	Small green circle
>1 to 3 ft bgs	Medium green circle	Medium green circle
>3 to 6 ft bgs	Large green circle	Large green circle
>6 to 10 ft bgs	Very large green circle	Very large green circle
>11 to 15 ft bgs	Large blue circle	Large blue circle
>16 ft bgs	Very large blue circle	Very large blue circle

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

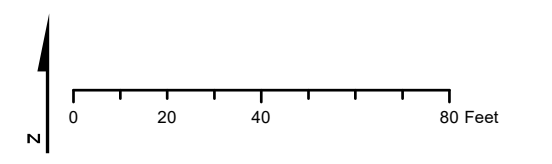


Figure 3-41
Iron
Soil Sample Results
AOC 4
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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	Concentration (Part A)	Concentration (Part B)
□ Depth Unknown	● ≤ background (ISL)	● ≤ background
○ 0 to 1 ft bgs	○ >1 to 3 ft bgs	○ > background
○ >3 to 6 ft bgs	○ >6 to 10 ft bgs	
○ >6 to 10 ft bgs	○ >11 to 15 ft bgs	
○ >11 to 15 ft bgs	○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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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.

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Magnesium
BKG 12,100 mg/kg

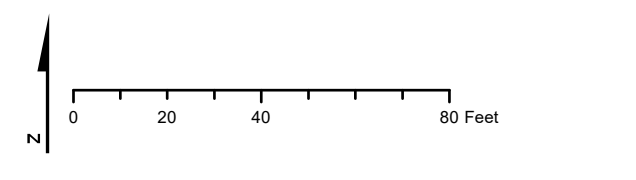


Figure 3-4m
Magnesium
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- ≤ background (ISL)

Concentration (Part B)

- ≤ background
- > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

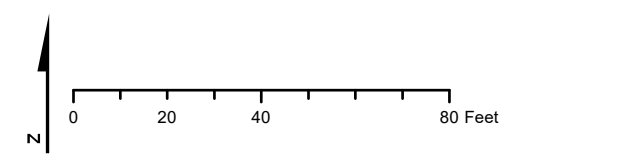


Figure 3-4n
Manganese
Soil Sample Results
AOC 4
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background
- > background to ≤ HHSL (ISL)
- > HHSL to ≤ 10x HHSL

Concentration (Part B)

- Non-detect
- ≤ background
- > background to ≤ CSL
- > CSL to ≤ 10x CSL
- > 100x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

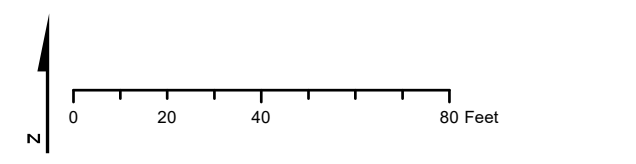


Figure 3-4o
Benzo(a)Pyrene Equivalent
Soil Sample Results
AOC 4
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

<p>Depth</p> <ul style="list-style-type: none"> □ Depth Unknown ○ 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 	<p>Concentration (Part A)</p> <ul style="list-style-type: none"> ○ Non-detect ○ <= background ○ > background to <= ECV (ISL) ○ > ECV to <= 10x ECV <p>Concentration (Part B)</p> <ul style="list-style-type: none"> ○ No screening for ecological receptors
--	---

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

PAH High molecular weight
ECV 1,160 ug/kg

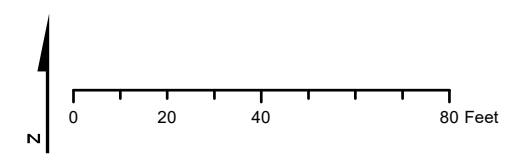


Figure 3-4p
PAH High molecular weight
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- Non-detect

Concentration (Part B)

- Non-detect
- ≤ CSL
- > CSL to ≤ 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

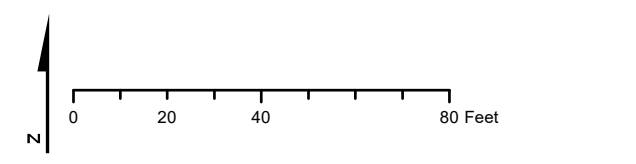


Figure 3-4q
Aroclor 1248
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California



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 (Part A)	
□	Depth Unknown	○	Non-detect
○	0 to 1 ft bgs	○	<= HHSL (ISL)
○	>1 to 3 ft bgs	○	> HHSL to <=10x HHSL
○	>3 to 6 ft bgs	○	> 10x HHSL
○	>6 to 10 ft bgs	Concentration (Part B)	
○	>11 to 15 ft bgs	○	Non-detect
○	>16 ft bgs	○	<= CSL
		○	> CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

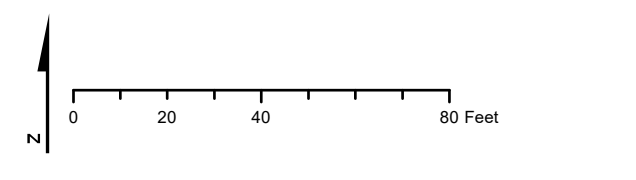


Figure 3-4r
Aroclor 1254
Soil Sample Results
AOC 4
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PG&E Topock Compressor Station, Needles, California



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		Concentration (Part A)	
□	Depth Unknown	○	Non-detect
○	0 to 1 ft bgs	○	<= HHSL (ISL)
○	>1 to 3 ft bgs	○	> HHSL to <=10x HHSL
○	>3 to 6 ft bgs	○	Concentration (Part B)
○	>6 to 10 ft bgs	○	Non-detect
○	>11 to 15 ft bgs	○	<= CSL
○	>16 ft bgs	○	> CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

Figure 3-4s
Aroclor 1260
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California

JACOBS



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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= ECV (ISL)
- > ECV to <= 10x ECV
- > 10x ECV

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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

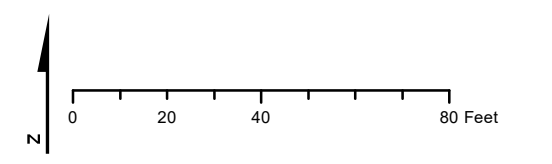


Figure 3-4t
Total PCBs
Soil Sample Results
AOC 4
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 (Part A)	
□	Depth Unknown	○	Non-detect
○	0 to 1 ft bgs	○	<= background
○	>1 to 3 ft bgs	○	> background to <= ECV (ISL)
○	>3 to 6 ft bgs	○	> ECV to <= 10x ECV
○	>6 to 10 ft bgs	○	> 10x ECV
○	>11 to 15 ft bgs		Concentration (Part B)
○	>16 ft bgs		No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

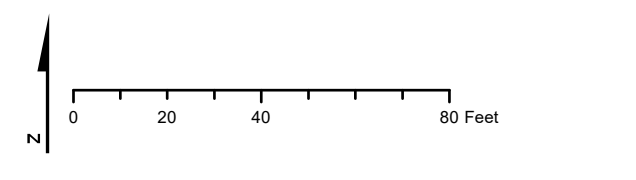


Figure 3-4u
Avian Dioxins and Furans TEQ
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California



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		Concentration (Part A)	
□	Depth Unknown	○	Non-detect
○	0 to 1 ft bgs	○	<= background
○	>1 to 3 ft bgs	○	> background to <= HHSL (ISL)
○	>3 to 6 ft bgs	○	> HHSL to <= 10x HHSL
○	>6 to 10 ft bgs	○	Concentration (Part B)
○	>11 to 15 ft bgs	○	Non-detect
○	>16 ft bgs	○	<= background
		○	> background to <= CSL
		○	> CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

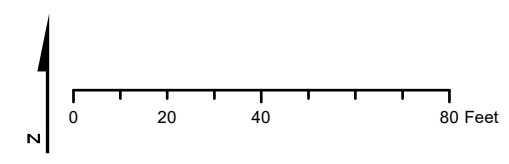
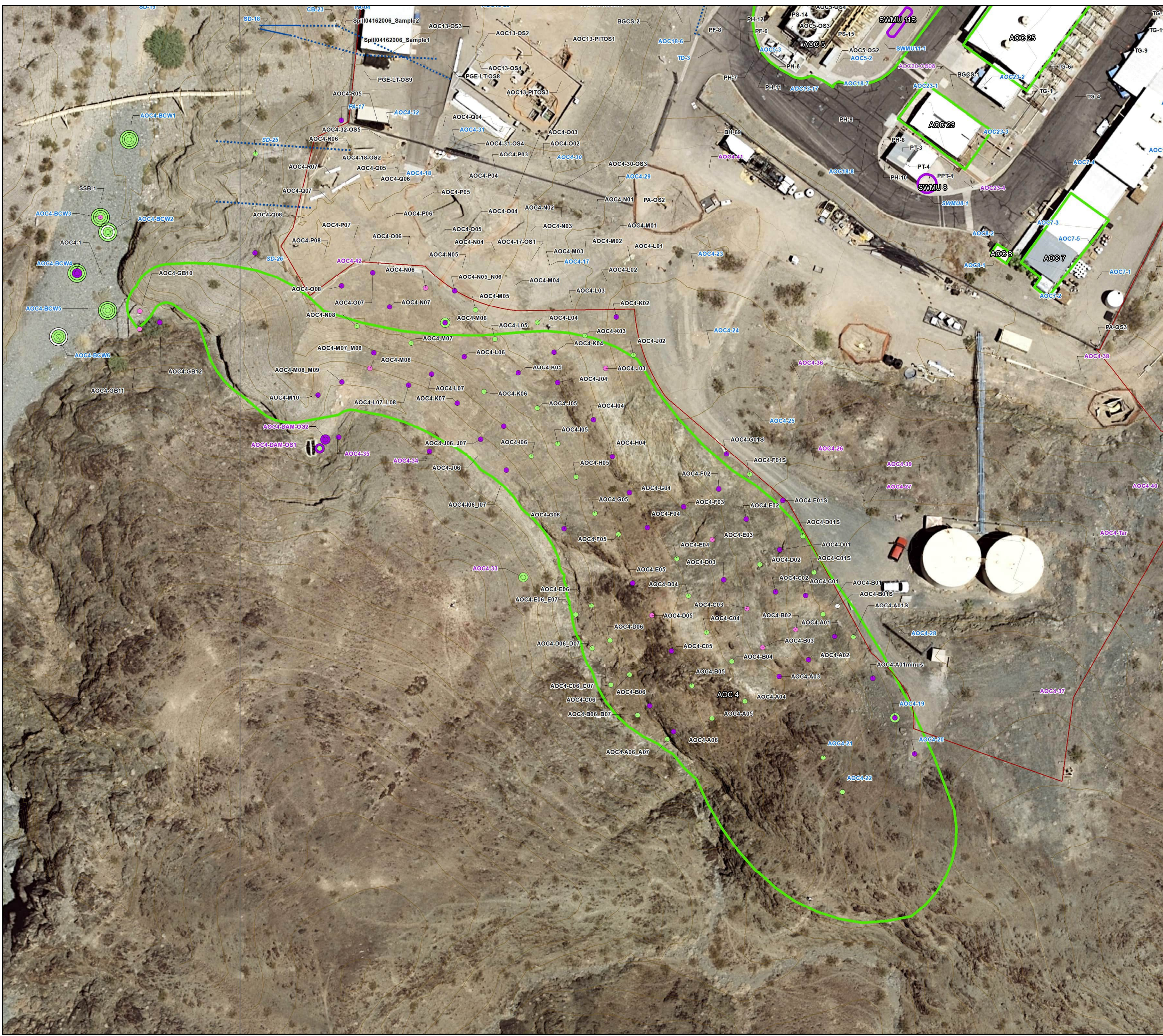


Figure 3-4v
Human Dioxins and Furans TEQ
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California



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	Concentration (Part A)
Depth Unknown	Non-detect
0 to 1 ft bgs	<= background (ISL)
>1 to 3 ft bgs	> background to <=10x background
>3 to 6 ft bgs	> 10x background
>6 to 10 ft bgs	
>11 to 15 ft bgs	
>16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

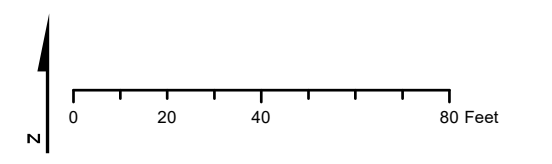


Figure 3-4w
Mammal Dioxins and Furans TEQ
Soil Sample Results
AOC 4
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California



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		Concentration (Part A)	
□	Depth Unknown	○	Non-detect
○	0 to 1 ft bgs	○	<= background (ISL)
○	>1 to 3 ft bgs	○	> background to <= ECV
○	>3 to 6 ft bgs	○	Concentration (Part B)
○	>6 to 10 ft bgs	○	Non-detect
○	>11 to 15 ft bgs	○	<= background
○	>16 ft bgs	○	> background to <= CSL
		○	> CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

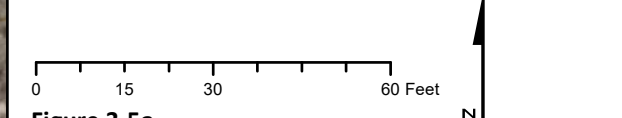
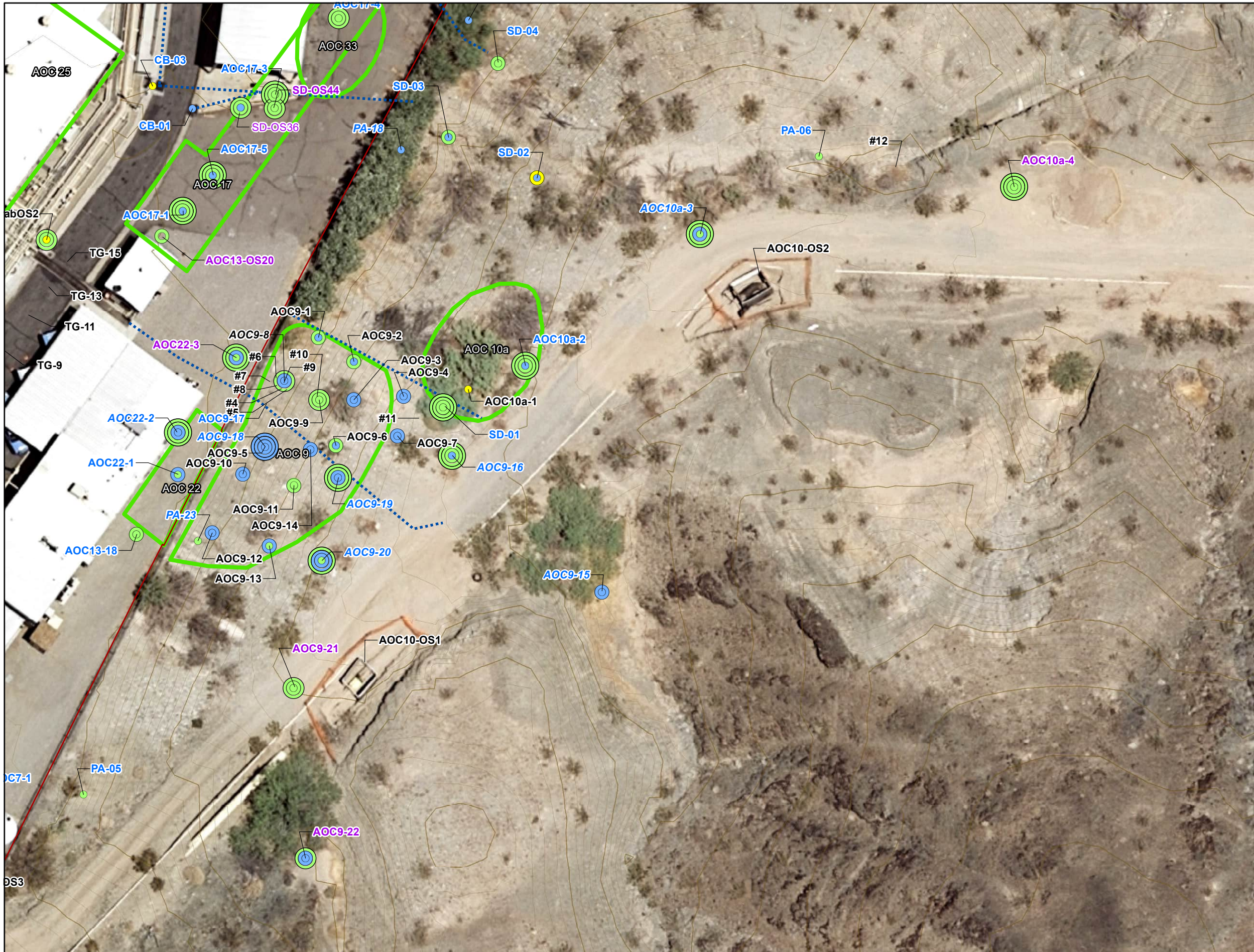


Figure 3-5a
Hexavalent Chromium
Soil Sample Results
AOC 9
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LEGEND

- 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 (Part A)
□ Depth Unknown	● ≤ background (ISL)
○ 0 to 1 ft bgs	● > background to ≤ HHSL
○ >1 to 3 ft bgs	● > HHSL to ≤ 10x HHSL
○ >3 to 6 ft bgs	Concentration (Part B)
○ >6 to 10 ft bgs	● ≤ background
○ >11 to 15 ft bgs	● > background to ≤ CSL
○ >16 ft bgs	● > CSL to ≤ 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

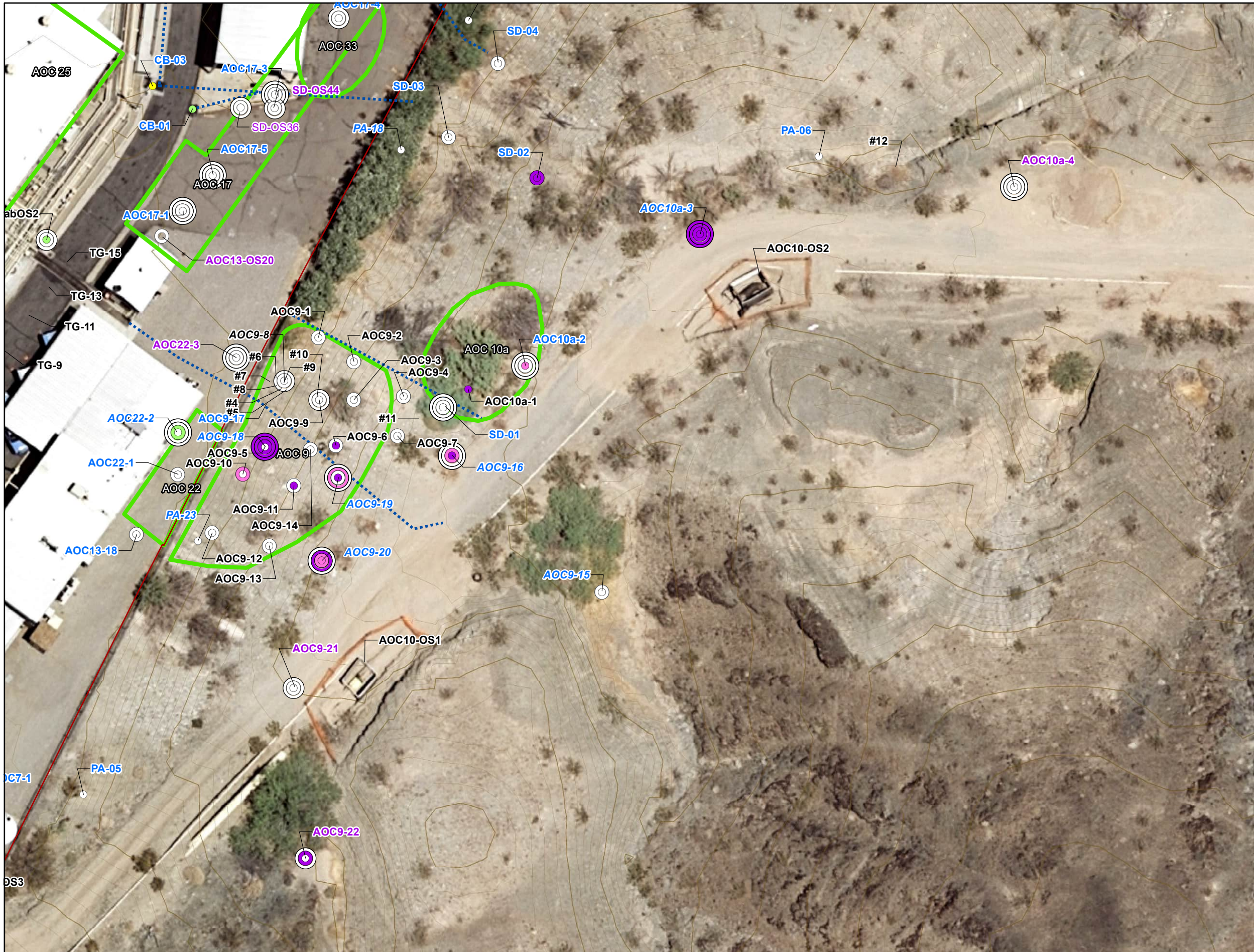
Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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 3-5d
Lead
Soil Sample Results
AOC 9
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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 (Part A)	
□	Depth Unknown	○	Non-detect
○	0 to 1 ft bgs	○	> ECV to <= 10x ECV
○	>1 to 3 ft bgs	○	> 10x ECV
○	>3 to 6 ft bgs	○	Concentration (Part B)
○	>6 to 10 ft bgs	○	Non-detect
○	>11 to 15 ft bgs	○	<= CSL
○	>16 ft bgs	○	> CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

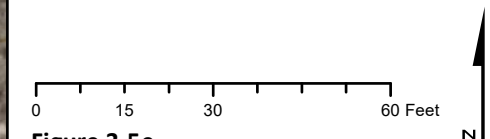
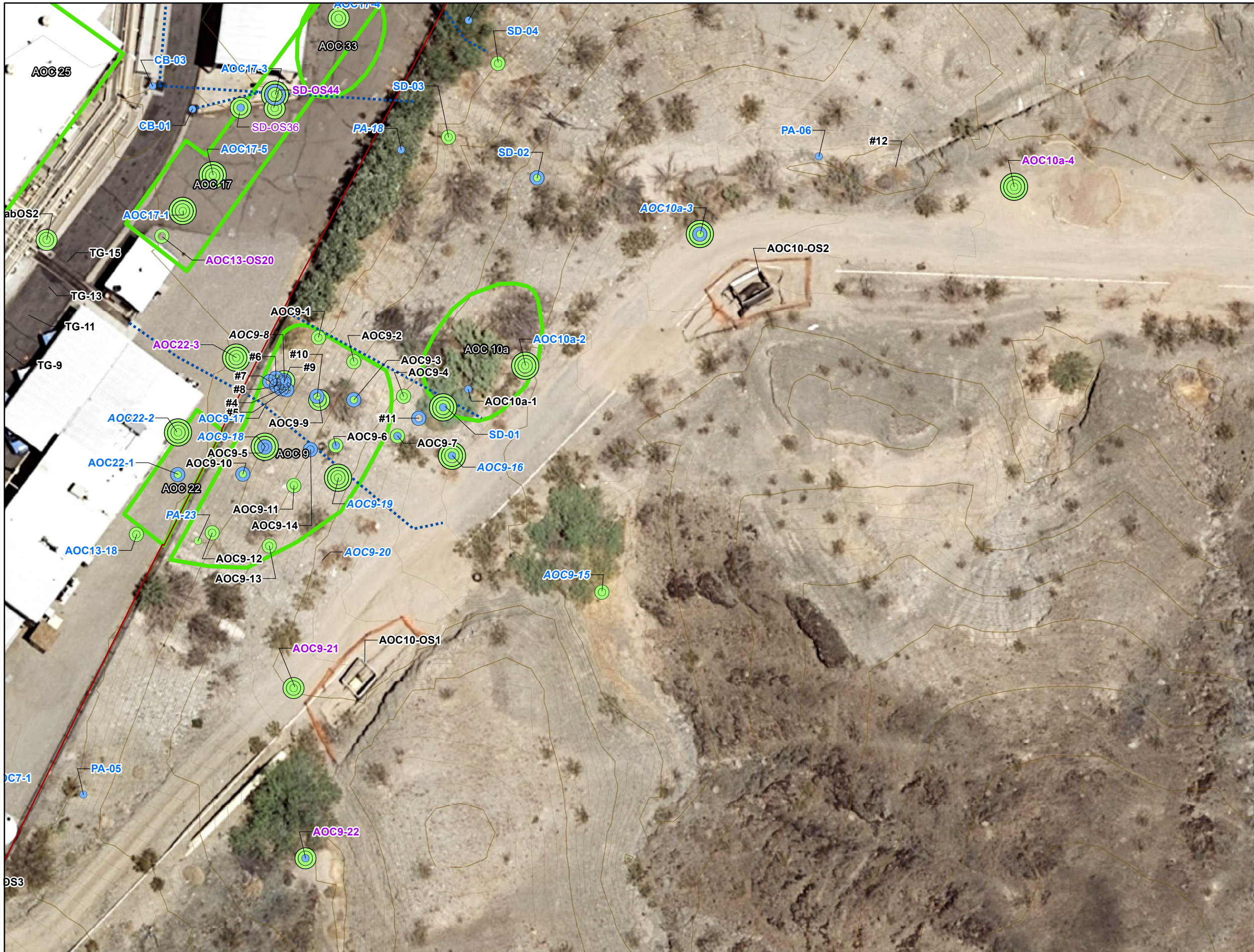


Figure 3-5e
Mercury
Soil Sample Results
AOC 9
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 PG&E Topock Compressor Station, Needles, California



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 (Part A)	
□	Depth Unknown	●	<= background (ISL)
○	0 to 1 ft bgs	●	> background to <= HHSL
○	>1 to 3 ft bgs	●	<= background
○	>3 to 6 ft bgs	●	> background to <= CSL
○	>6 to 10 ft bgs		
○	>11 to 15 ft bgs		
○	>16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-5f
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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	● ≤ background
○ >1 to 3 ft bgs	● > background to ≤ HHSL (ISL)
○ >3 to 6 ft bgs	● > HHSL to ≤ 10x HHSL
○ >6 to 10 ft bgs	● > 10x HHSL to ≤ 100x HHSL
○ >11 to 15 ft bgs	Concentration (Part B)
○ >16 ft bgs	○ Non-detect
	● ≤ background
	● > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

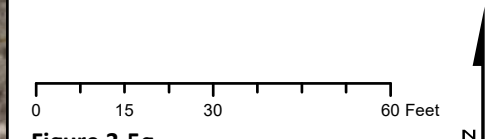
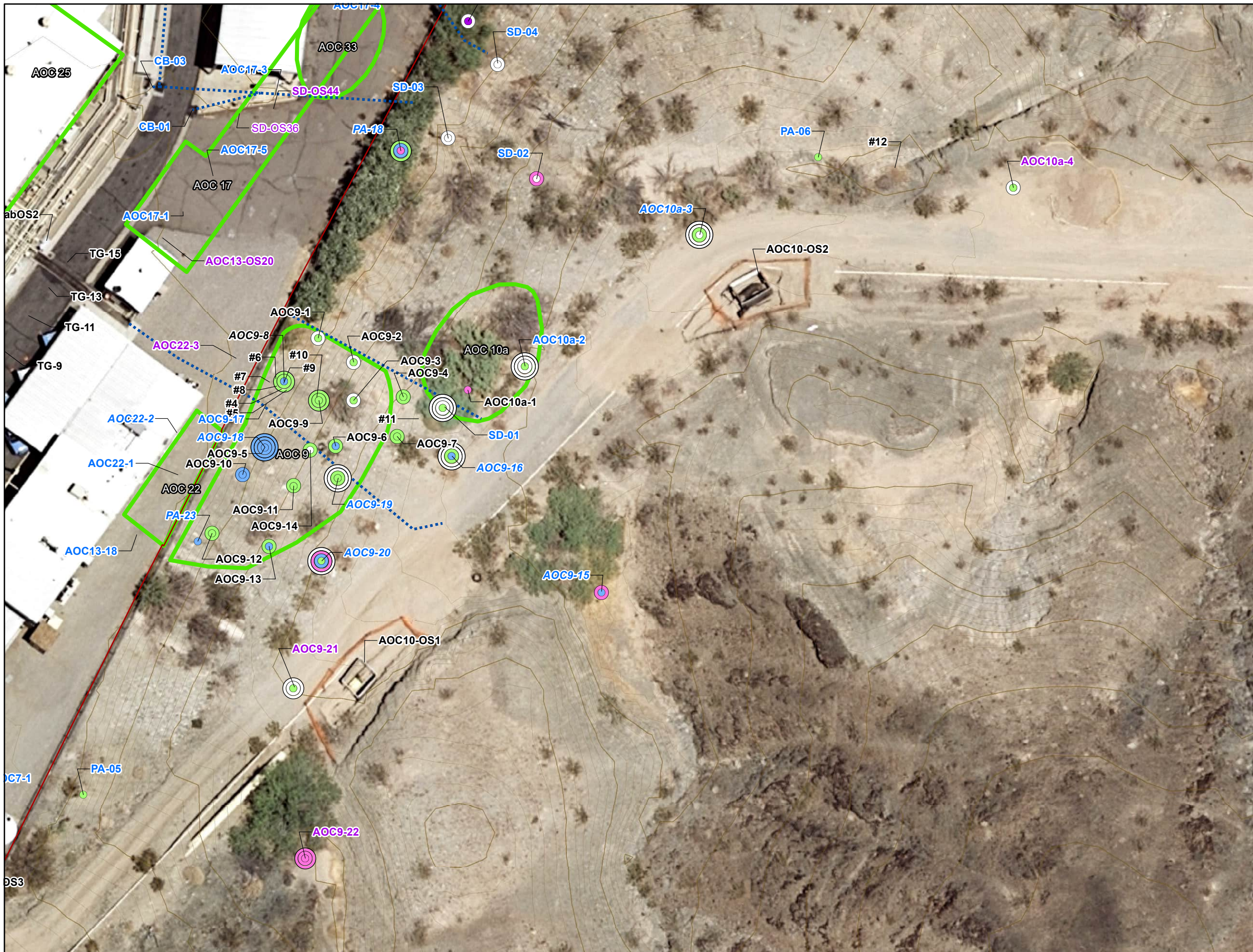


Figure 3-5g
Benzo(a)Pyrene Equivalent
Soil Sample Results
AOC 9
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PG&E Topock Compressor Station, Needles, California



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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ ≤ background
○ >1 to 3 ft bgs	○ > background to ≤ ECV (ISL)
○ >3 to 6 ft bgs	○ > ECV to ≤ 10x ECV
○ >6 to 10 ft bgs	○ > 10x ECV
○ >11 to 15 ft bgs	Concentration (Part B)
○ >16 ft bgs	No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

PAH High molecular weight
ECV 1,160 ug/kg

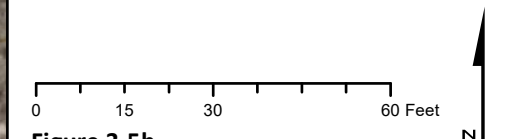


Figure 3-5h
PAH High molecular weight
Soil Sample Results
AOC 9
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PG&E Topock Compressor Station, Needles, California



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 (Part A)	
□	Depth Unknown	○	Non-detect
○	0 to 1 ft bgs	●	<= HHSL (ISL)
○	>1 to 3 ft bgs	●	> HHSL to <=10x HHSL
○	>3 to 6 ft bgs		Concentration (Part B)
○	>6 to 10 ft bgs	○	Non-detect
○	>11 to 15 ft bgs	●	<= CSL
○	>16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

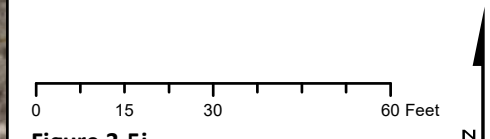


Figure 3-5i
Aroclor 1254
Soil Sample Results
AOC 9
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	● ≤ HHSL (ISL)
○ >1 to 3 ft bgs	● > HHSL to ≤ 10x HHSL
○ >3 to 6 ft bgs	Concentration (Part B)
○ >6 to 10 ft bgs	○ Non-detect
○ >11 to 15 ft bgs	● ≤ CSL
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

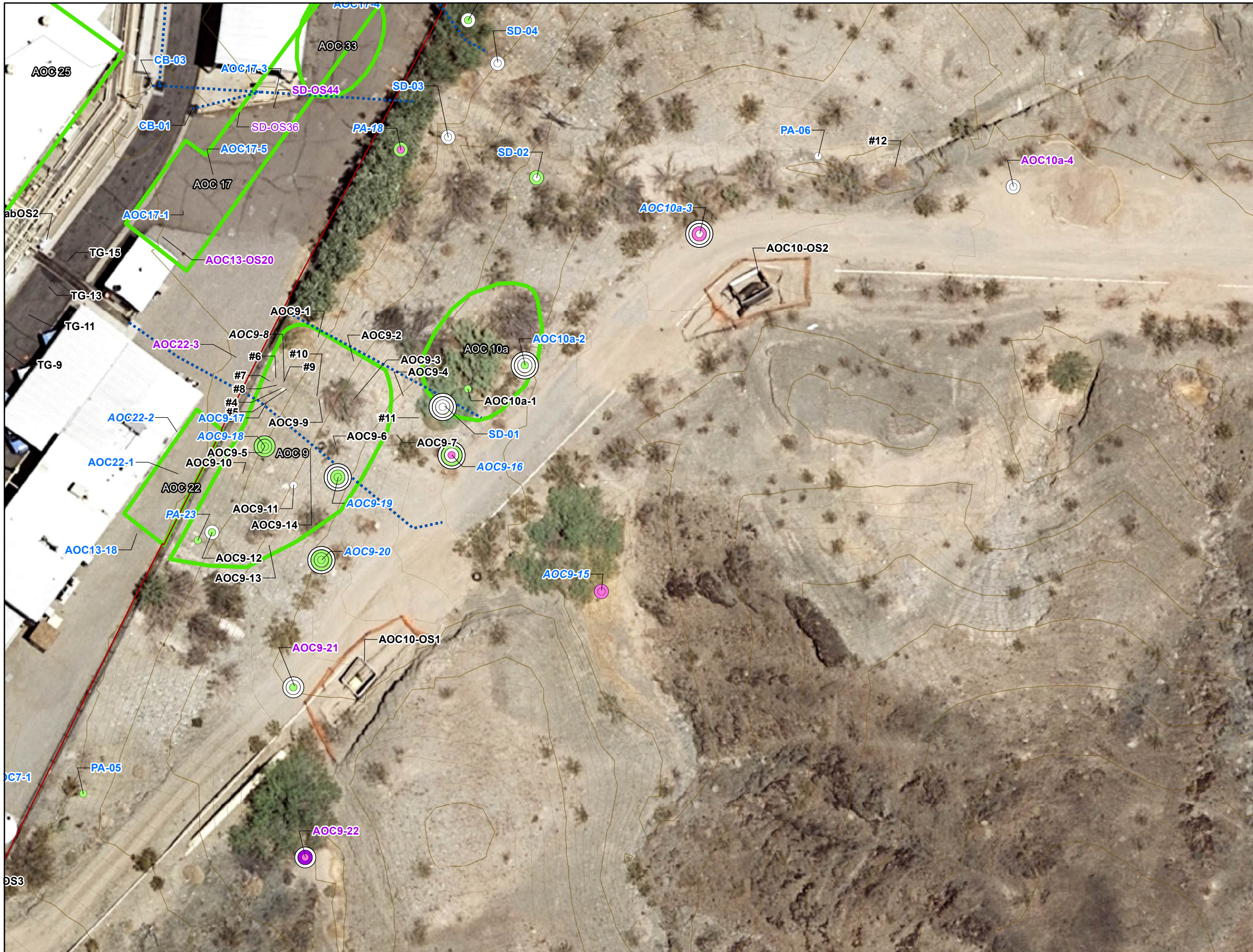
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 (Part A)	
□	Depth Unknown	○	Non-detect
○	0 to 1 ft bgs	●	<= ECV (ISL)
○	>1 to 3 ft bgs	●	> ECV to <= 10x ECV
○	>3 to 6 ft bgs	●	> 10x ECV
○	>6 to 10 ft bgs		
○	>11 to 15 ft bgs		
○	>16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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

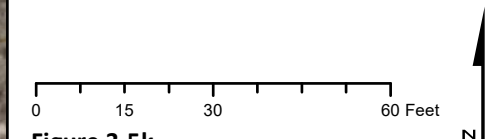
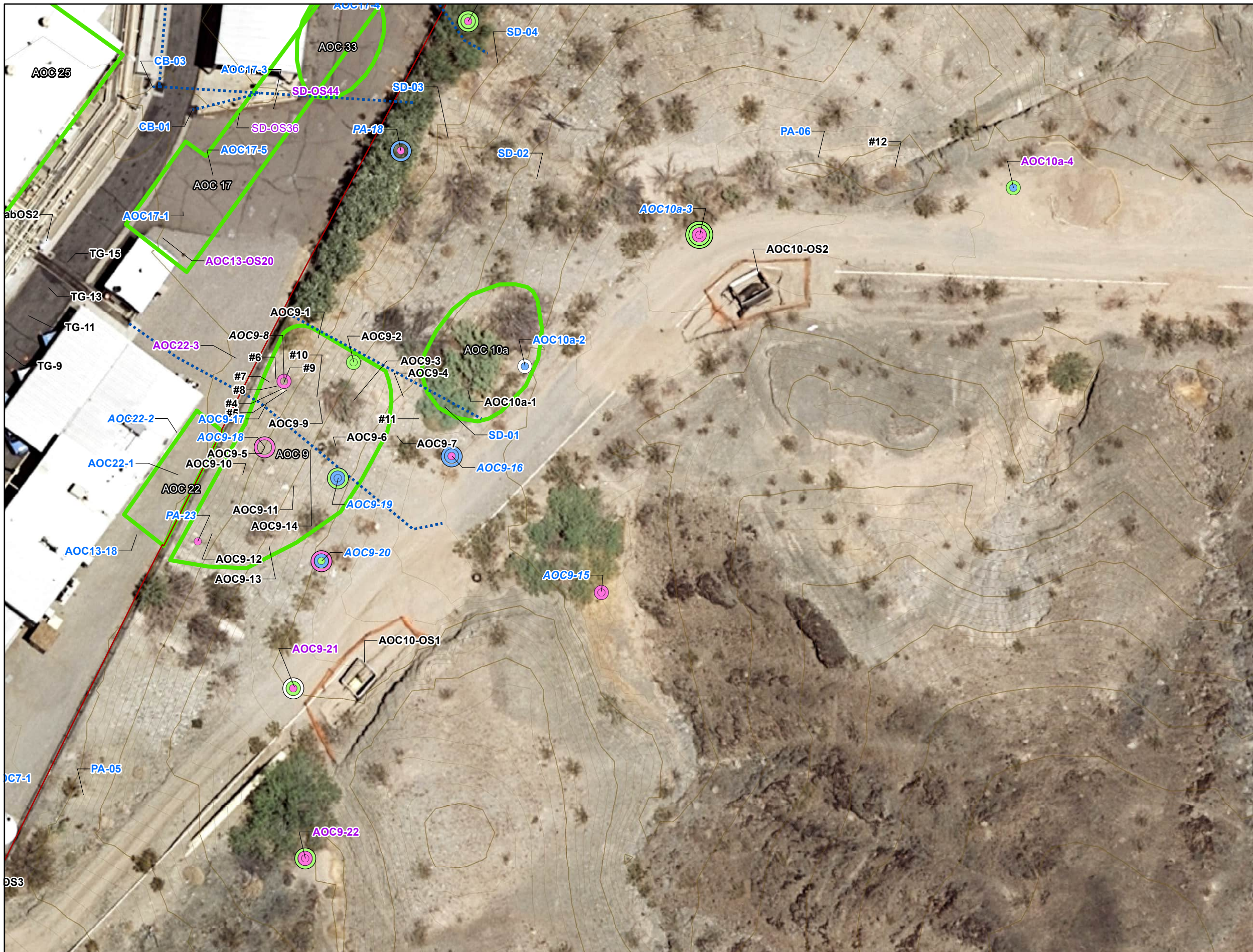


Figure 3-5k
Total PCBs
Soil Sample Results
AOC 9
 RFI/RI Report, Volume 3 –
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 PG&E Topock Compressor Station, Needles, California



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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ ≤ background
○ >1 to 3 ft bgs	○ > background to ≤ ECV (ISL)
○ >3 to 6 ft bgs	○ > ECV to ≤ 10x ECV
○ >6 to 10 ft bgs	Concentration (Part B)
○ >11 to 15 ft bgs	No screening for ecological receptors
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

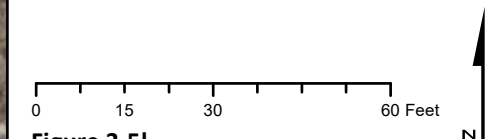
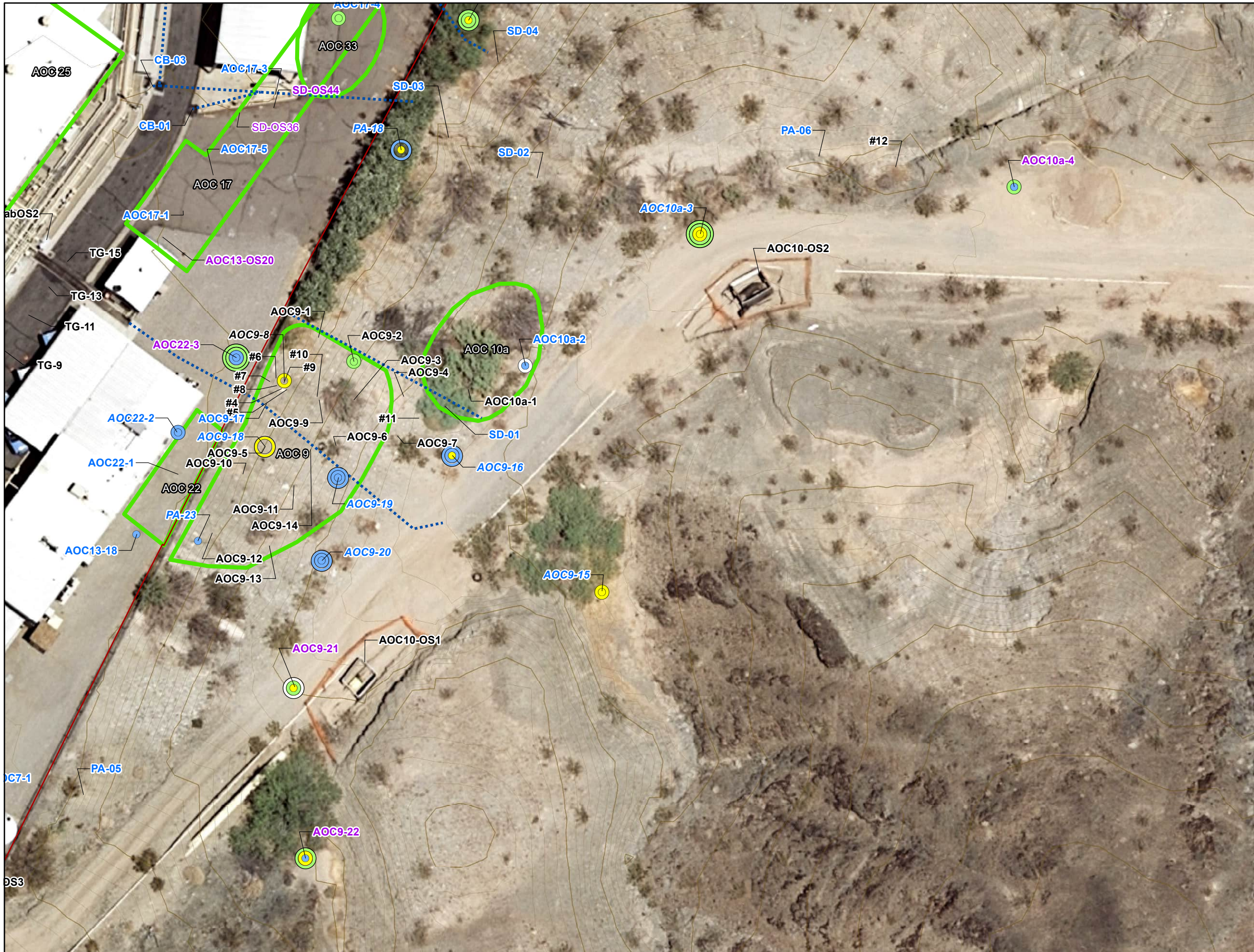


Figure 3-51
Avian Dioxins and Furans TEQ
Soil Sample Results
AOC 9
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California



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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ ≤ background
○ >1 to 3 ft bgs	○ > background to ≤ HHSL (ISL)
○ >3 to 6 ft bgs	○ > HHSL to ≤ 10x HHSL
○ >6 to 10 ft bgs	Concentration (Part B)
○ >11 to 15 ft bgs	○ ≤ background
○ >16 ft bgs	○ > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

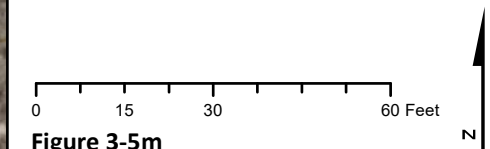
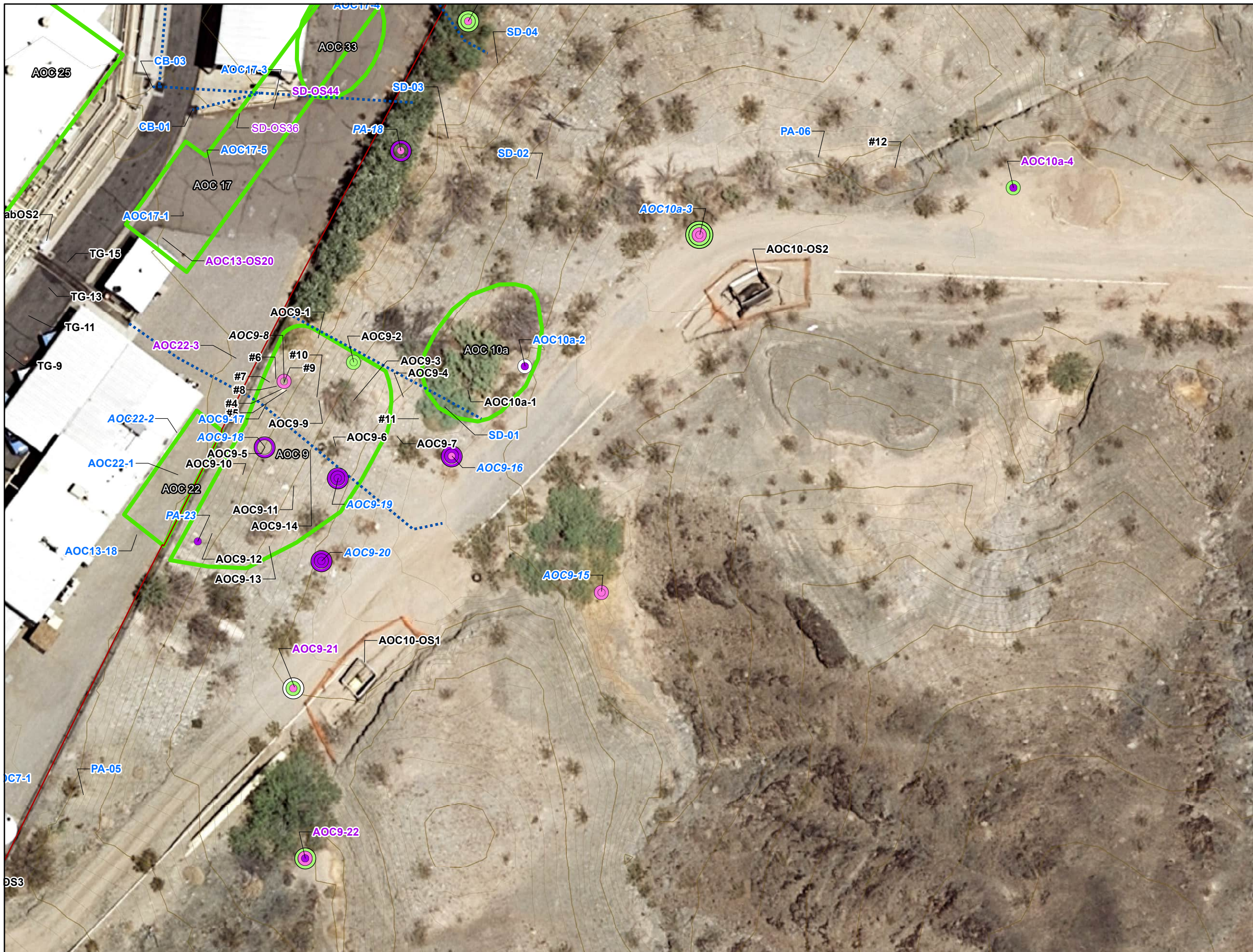


Figure 3-5m
Human Dioxins and Furans TEQ
Soil Sample Results
AOC 9
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 PG&E Topock Compressor Station, Needles, California



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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ ≤ background (ISL)
○ >1 to 3 ft bgs	○ > background to ≤10x background
○ >3 to 6 ft bgs	○ > 10x background
○ >6 to 10 ft bgs	Concentration (Part B)
○ >11 to 15 ft bgs	No screening for ecological receptors
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

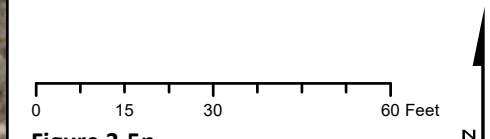
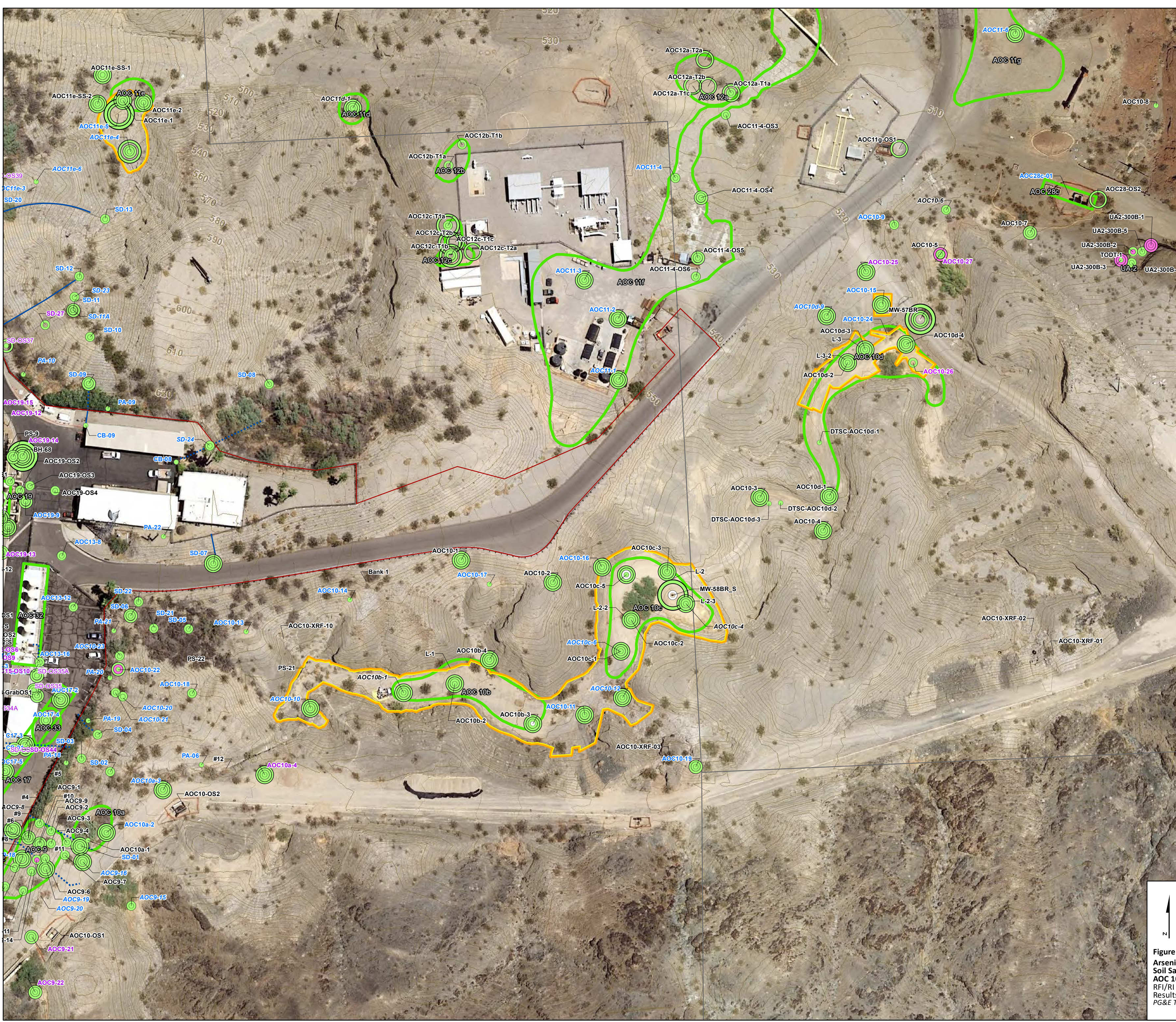


Figure 3-5n
Mammal Dioxins and Furans TEQ
Soil Sample Results
AOC 9
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > ECV to <= 10x ECV

Concentration (Part B)

- <= background

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 screening level is set at the background value.

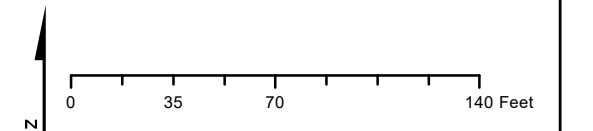


Figure 3-6a
Arsenic
Soil Sample Results
AOC 10 and UA 2
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LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= HHSL
- > HHSL to <= 10x HHSL

Concentration (Part B)

- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

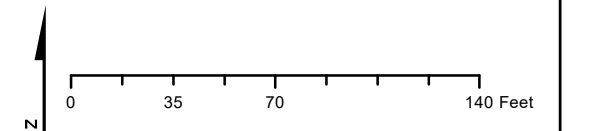


Figure 3-6b
Cadmium
Soil Sample Results
AOC 10 and UA 2
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 PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV

Concentration (Part B)

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

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

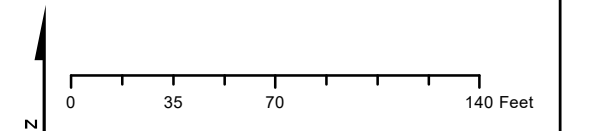
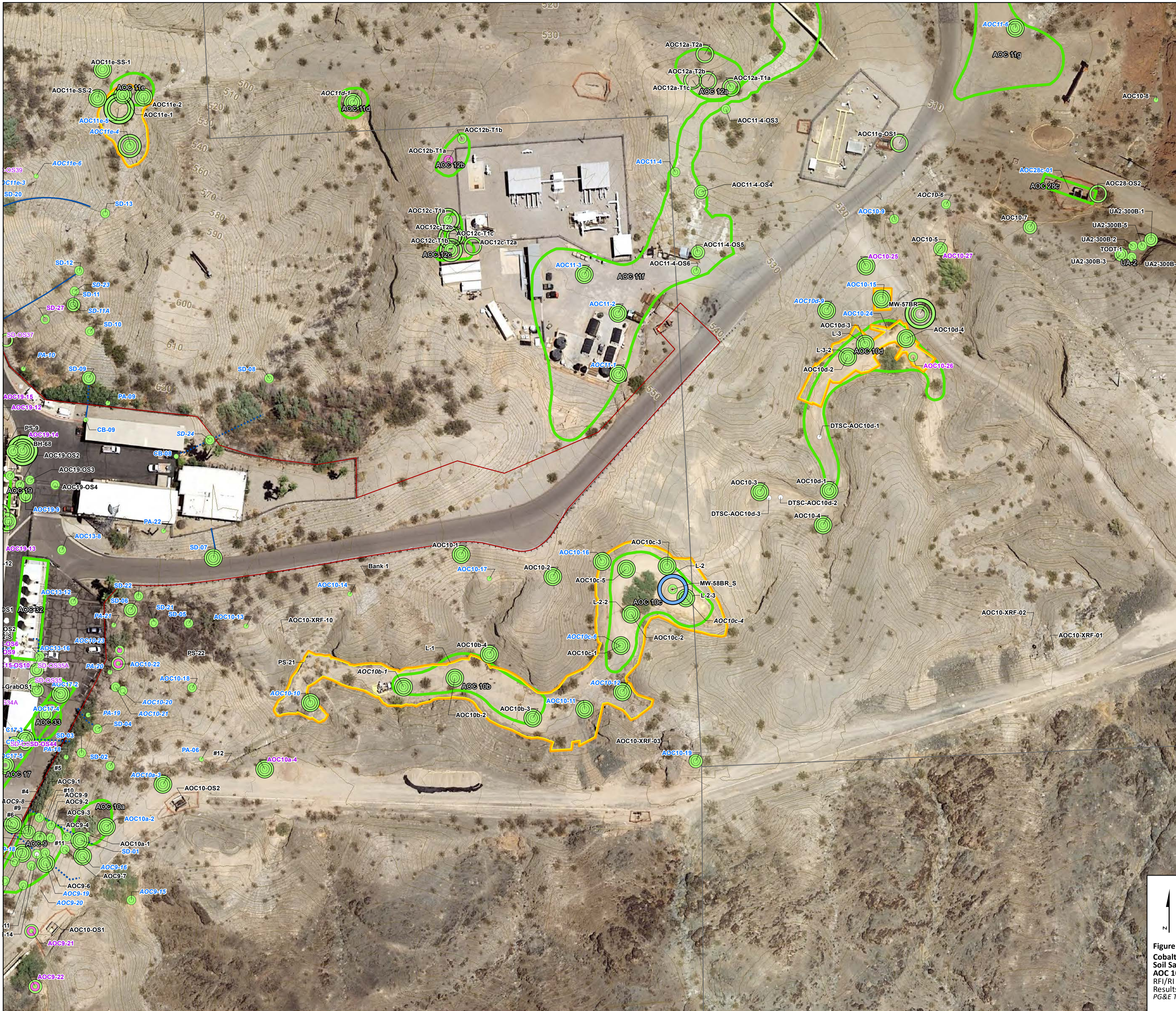


Figure 3-6c
Hexavalent Chromium
Soil Sample Results
AOC 10 and UA 2
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PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <=10x ECV

Concentration (Part B)

- <= background

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

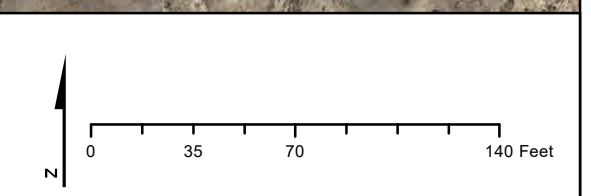


Figure 3-6e
Cobalt
Soil Sample Results
AOC 10 and UA 2
 RFI/RI Report, Volume 3 –
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 PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= HHSL
- > HHSL to <= 10x HHSL
- > 10x HHSL to <= 100x HHSL

Concentration (Part B)

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

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-6g
Lead
Soil Sample Results
AOC 10 and UA 2
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PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

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

Concentration (Part B)

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

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

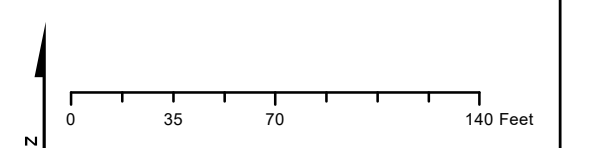
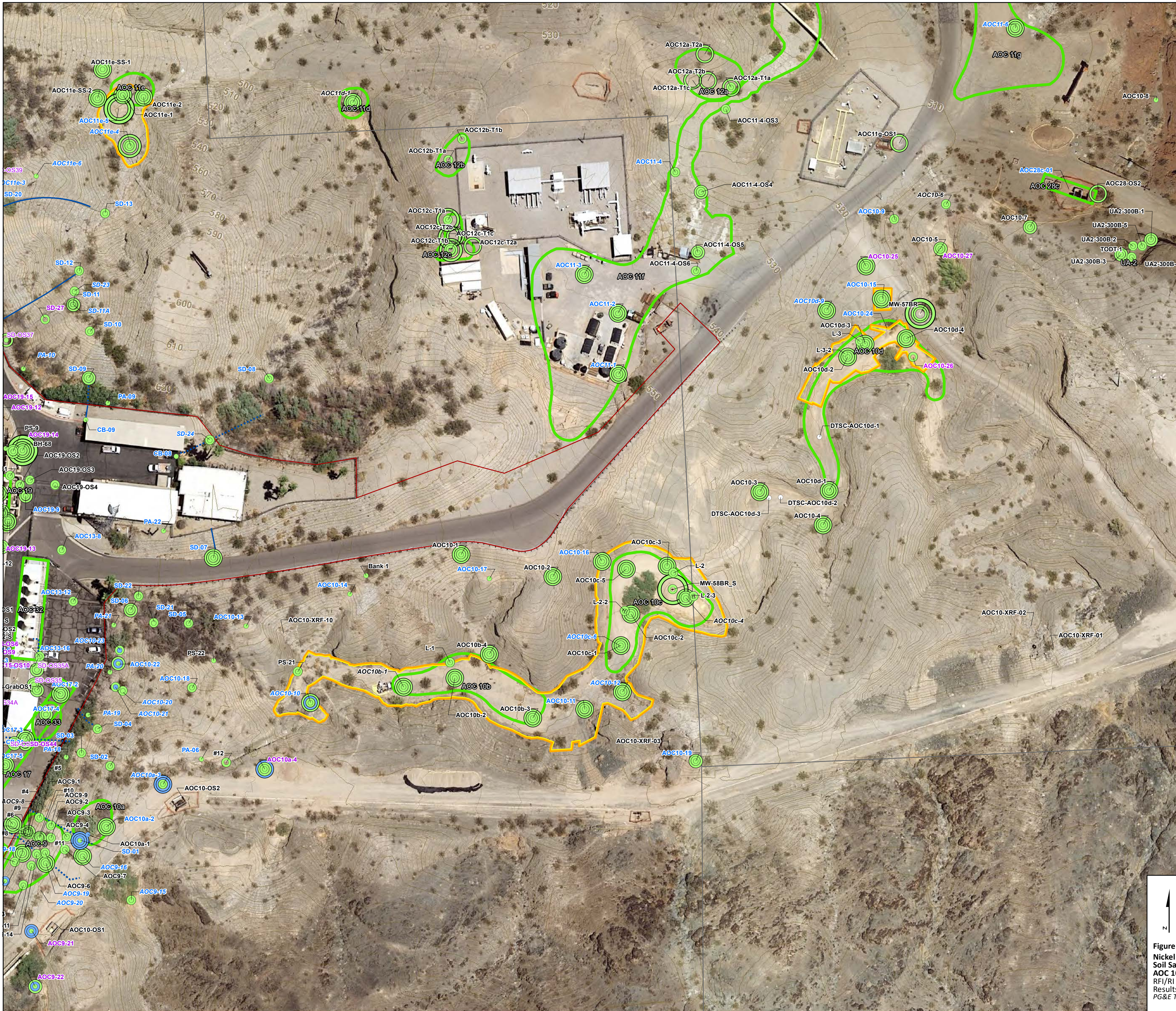


Figure 3-6h
Mercury
Soil Sample Results
AOC 10 and UA 2
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

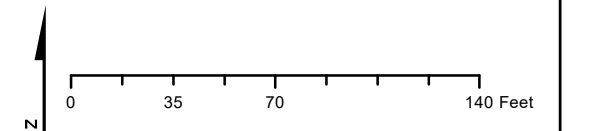


Figure 3-6j
 Nickel
 Soil Sample Results
 AOC 10 and UA 2
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

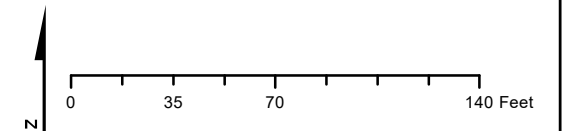


Figure 3-61
Zinc
Soil Sample Results
AOC 10 and UA 2
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topack Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background
- > background to <= ECV (ISL)
- > ECV to <= 10x ECV
- > 10x ECV

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

PAH High molecular weight
ECV 1,160 ug/kg

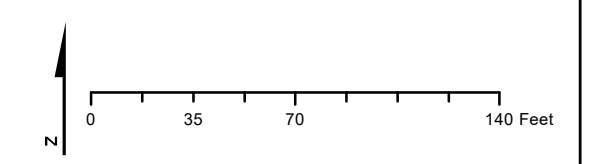


Figure 3-6n
PAH High molecular weight
Soil Sample Results
AOC 10 and UA 2
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ HHSL (ISL)
- > HHSL to ≤ 10x HHSL
- > 10x HHSL

Concentration (Part B)

- Non-detect
- ≤ CSL
- > CSL to ≤ 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

Figure 3-60
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= ECV (ISL)
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

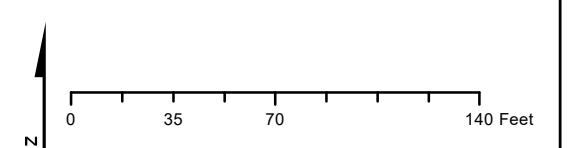
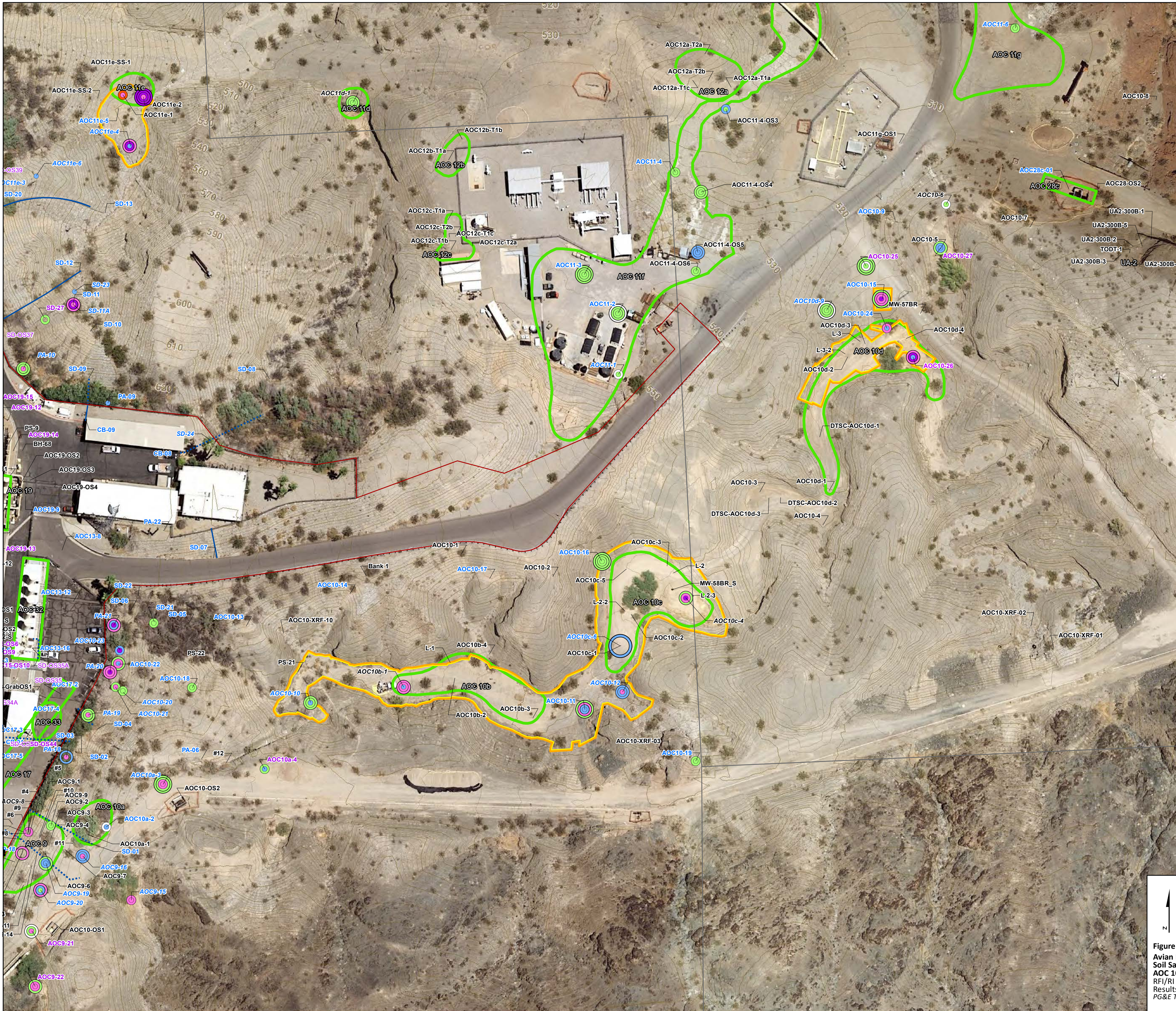


Figure 3-6p
Total PCBs
Soil Sample Results
AOC 10 and UA 2
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background
- > background to <= ECV (ISL)
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV
- >100x ECV

Concentration (Part B)

- No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

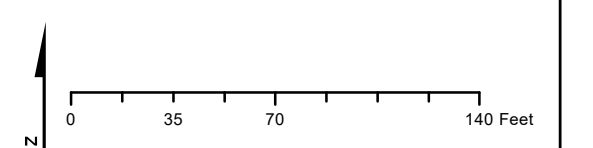
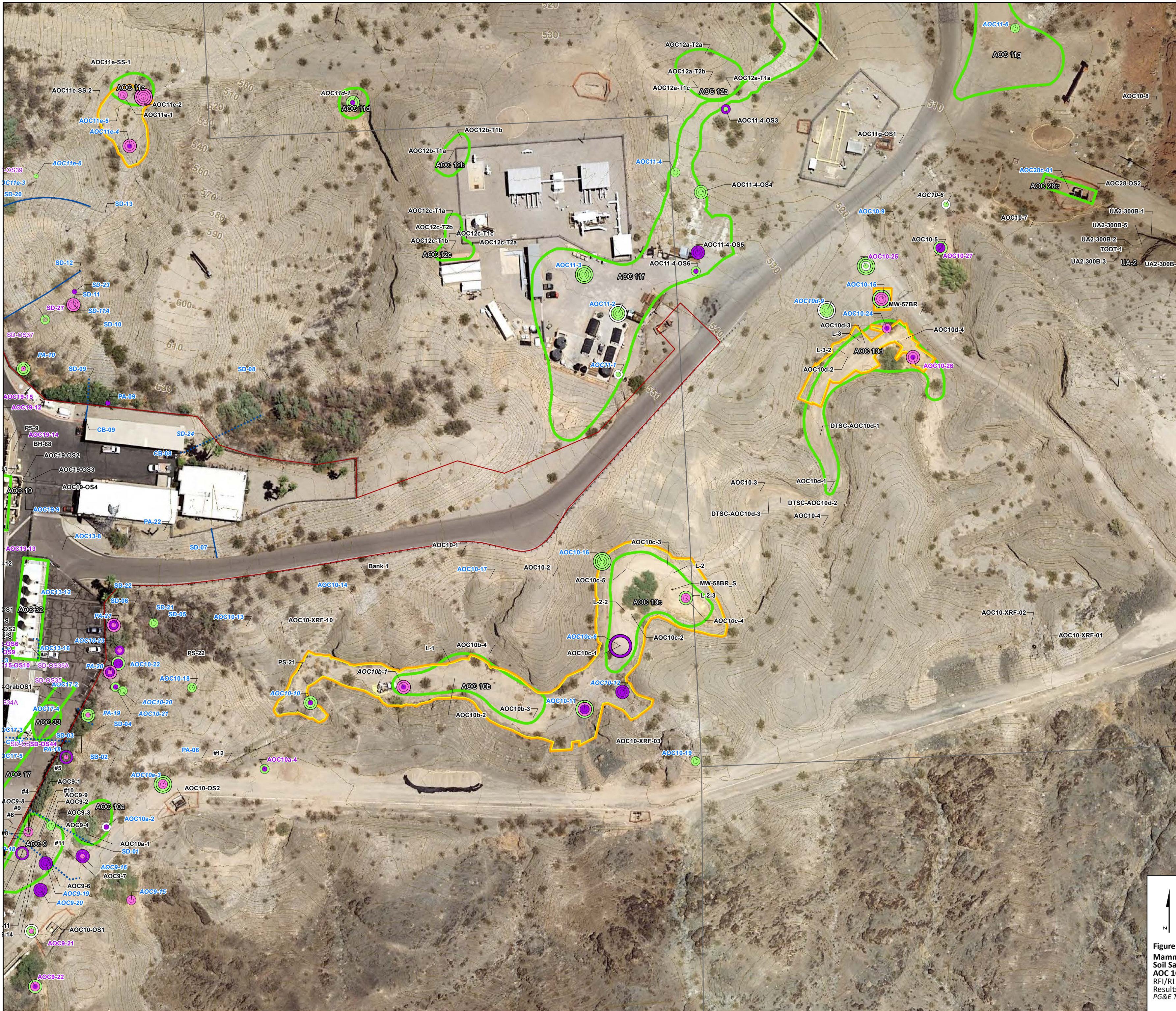


Figure 3-6q
Avian Dioxins and Furans TEQ
Soil Sample Results
AOC 10 and UA 2
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ background
- > background to ≤10x background
- > 10x background

Concentration (Part B)

- No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

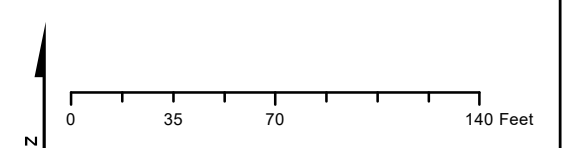


Figure 3-6s
Mammal Dioxins and Furans TEQ
Soil Sample Results
AOC 10 and UA 2
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topack Compressor Station, Needles, California

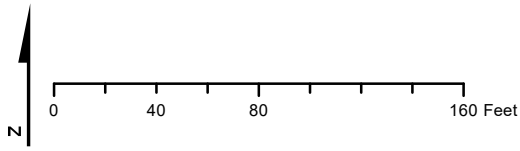


Figure 3-6t
Arsenic
Sediment Sample Results
AOC 10 East Ravine
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 0.5 ft bgs
- △ 0.5-3
- △ 3-6
- △ 6-10

Concentration

- Non-detect
- ≤ screening level
- > Sediment SL

Note:
 Topographic contours shown are in 2 foot intervals

Interim screening level is equal to the lower value between the TEC and PEC. If neither is available, then the soil background value, if available, is used.

Arsenic
 BKG 11 mg/kg
 Consensus-based Threshold effect concentration 9.79 mg/kg
 Consensus-based Probable effect concentration 33 mg/kg

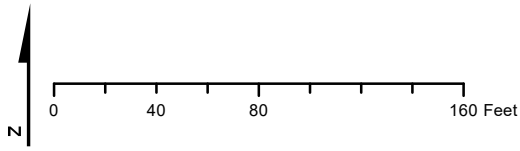
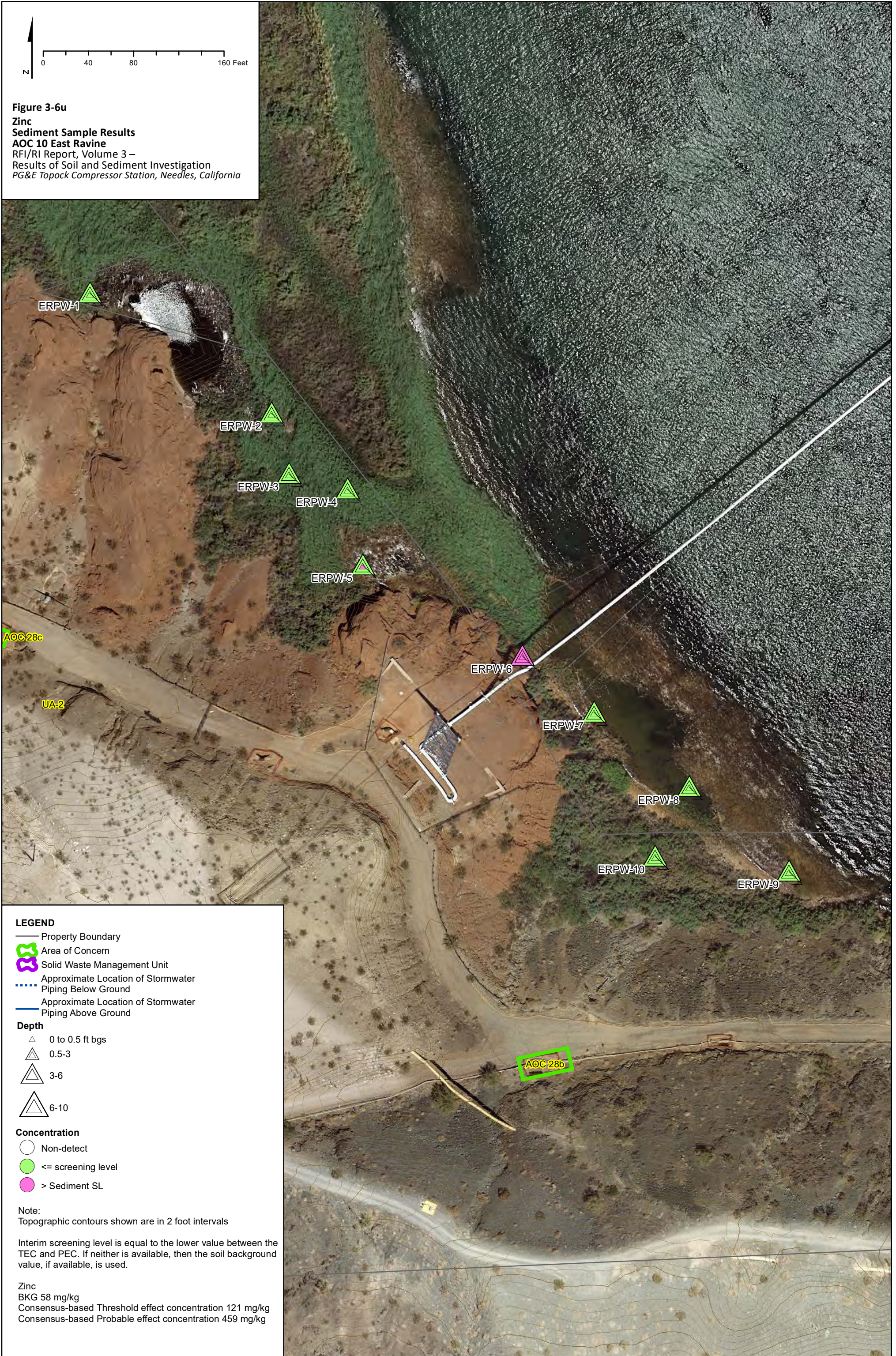


Figure 3-6u
Zinc
Sediment Sample Results
AOC 10 East Ravine
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- △ 0 to 0.5 ft bgs
- △ 0.5-3
- △ 3-6
- △ 6-10

Concentration

- Non-detect
- ≤ screening level
- > Sediment SL

Note:
 Topographic contours shown are in 2 foot intervals

Interim screening level is equal to the lower value between the TEC and PEC. If neither is available, then the soil background value, if available, is used.

Zinc
 BKG 58 mg/kg
 Consensus-based Threshold effect concentration 121 mg/kg
 Consensus-based Probable effect concentration 459 mg/kg

LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- <= background

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

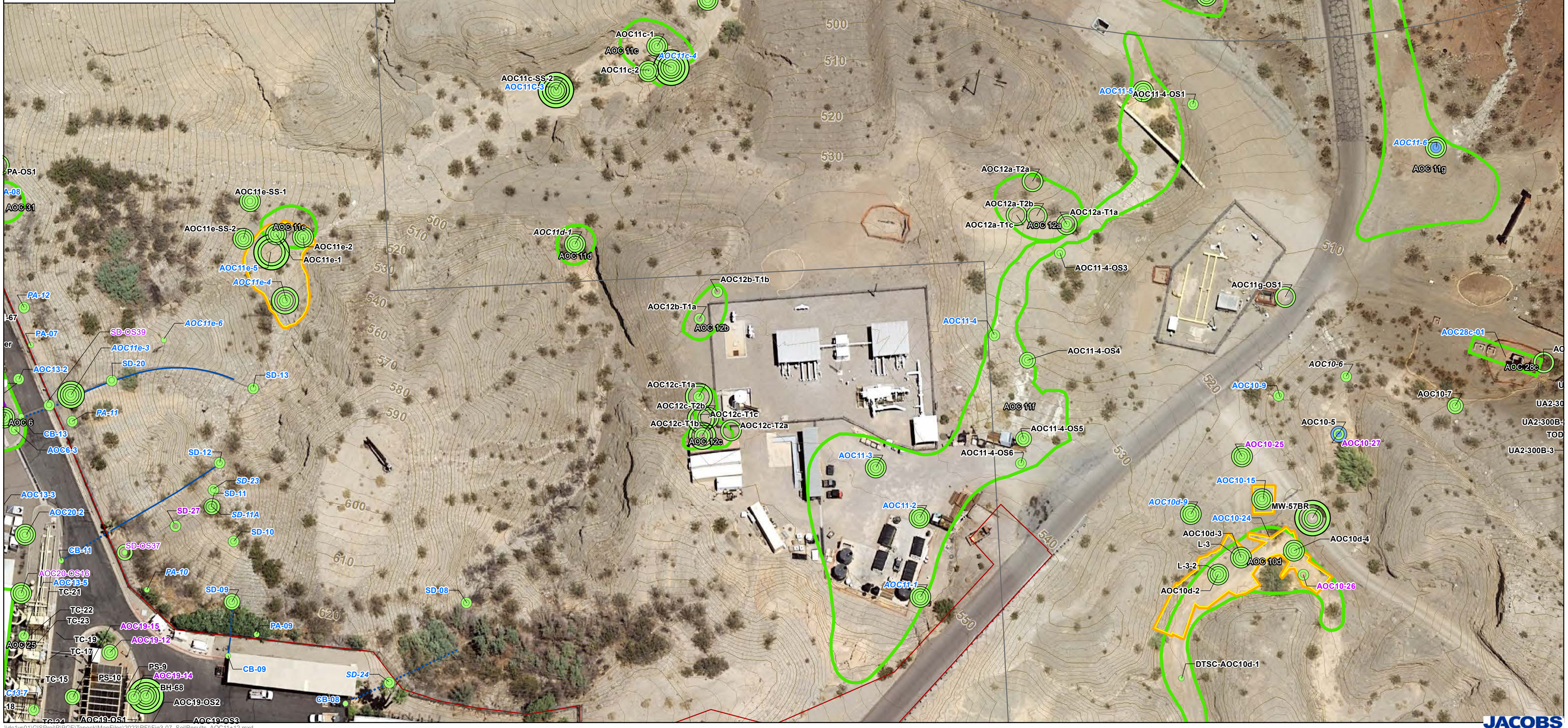
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV

Concentration (Part B)

- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-7b
Hexavalent Chromium
Soil Sample Results
AOC 11 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg

Concentration (Part B)

- <= background
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg

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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

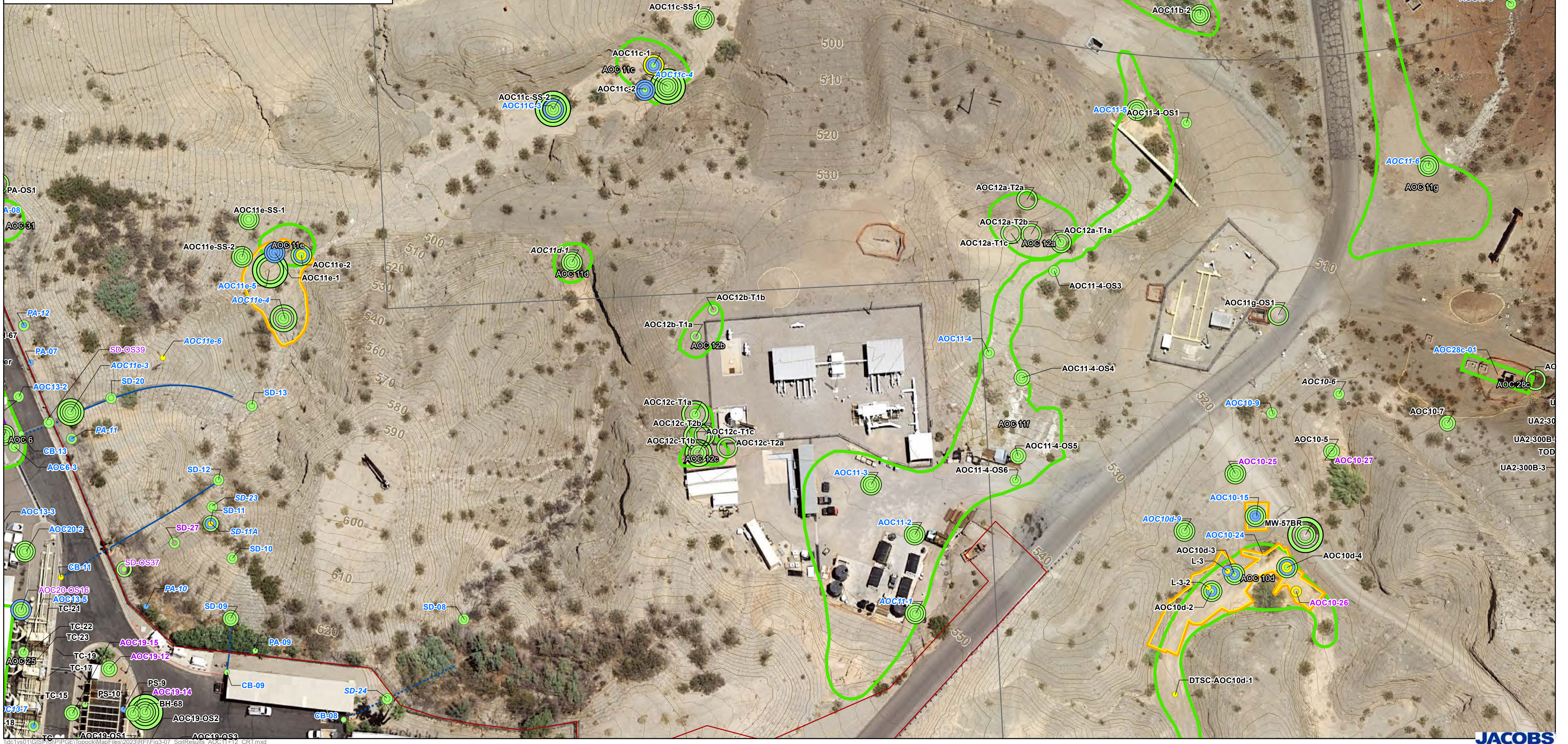
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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
Interim Screening Level 39.8 mg/kg
DTSC Requested Screening Levels 100 mg/kg and 1,000 mg/kg

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

Figure 3-7c
Total Chromium
Soil Sample Results
AOC 11 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV

Concentration (Part B)

- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

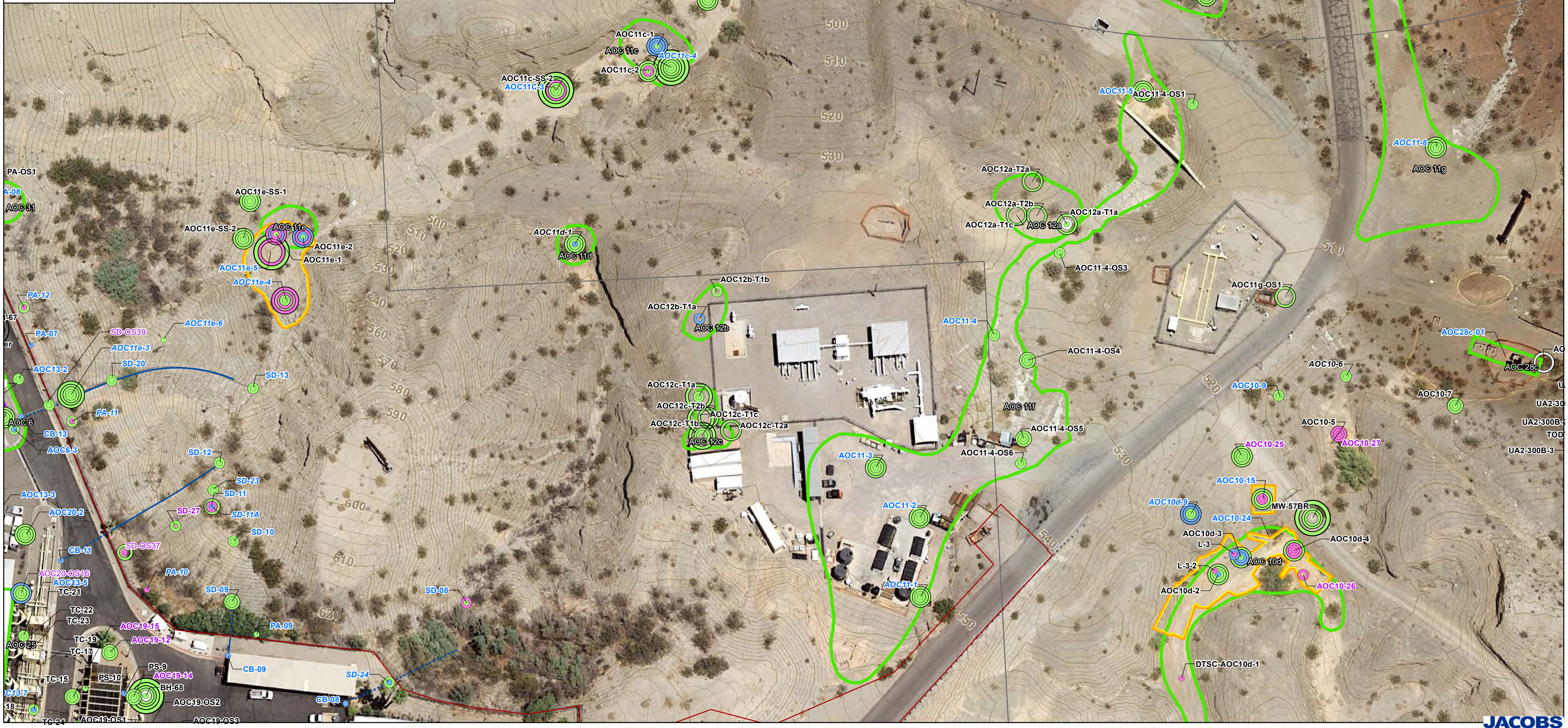
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= HHSL
- > HHSL to <= 10x HHSL

Concentration (Part B)

- <= background
- > background to <= CSL
- > CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

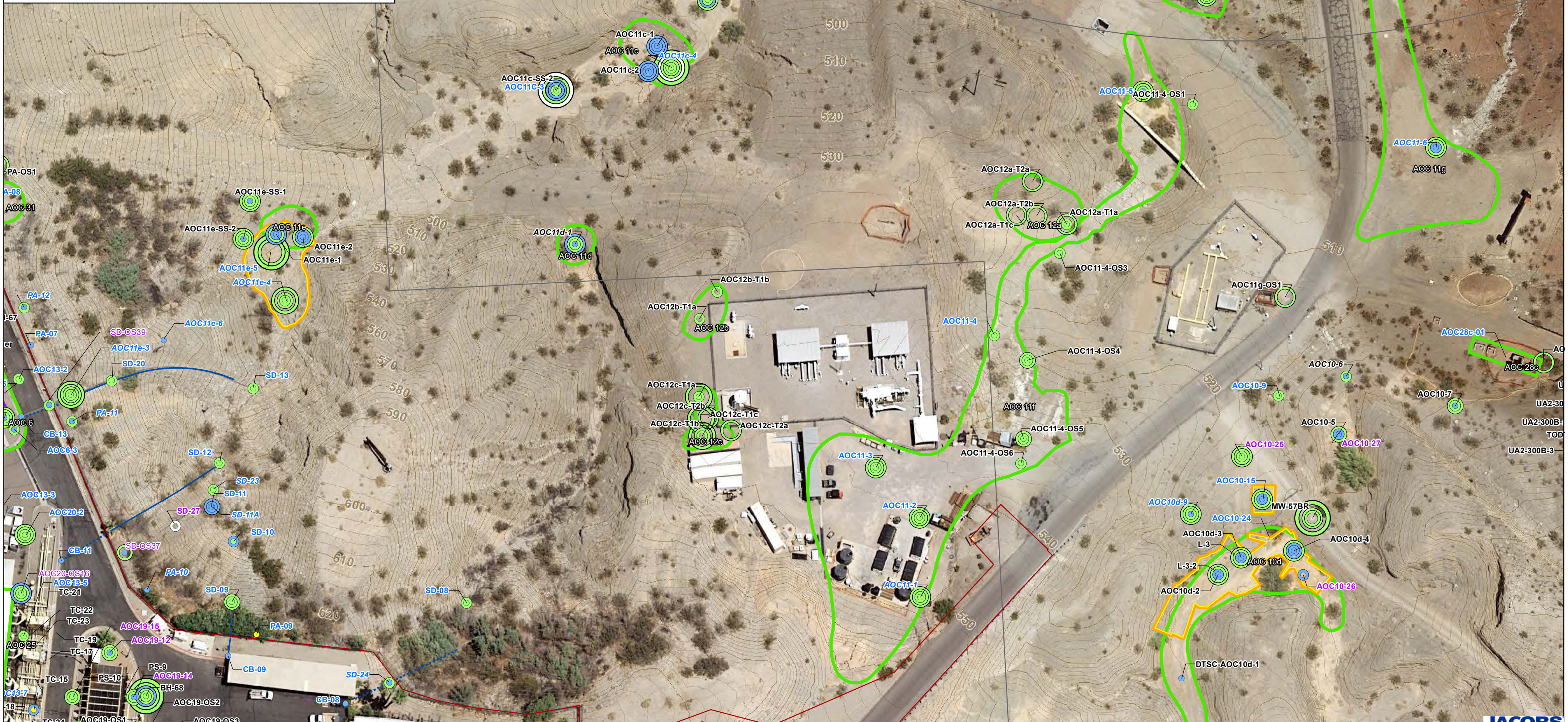
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV

Concentration (Part B)

- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

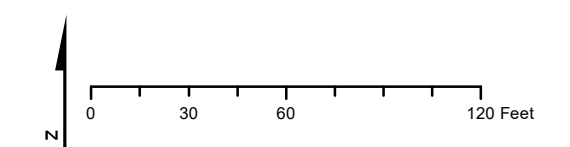
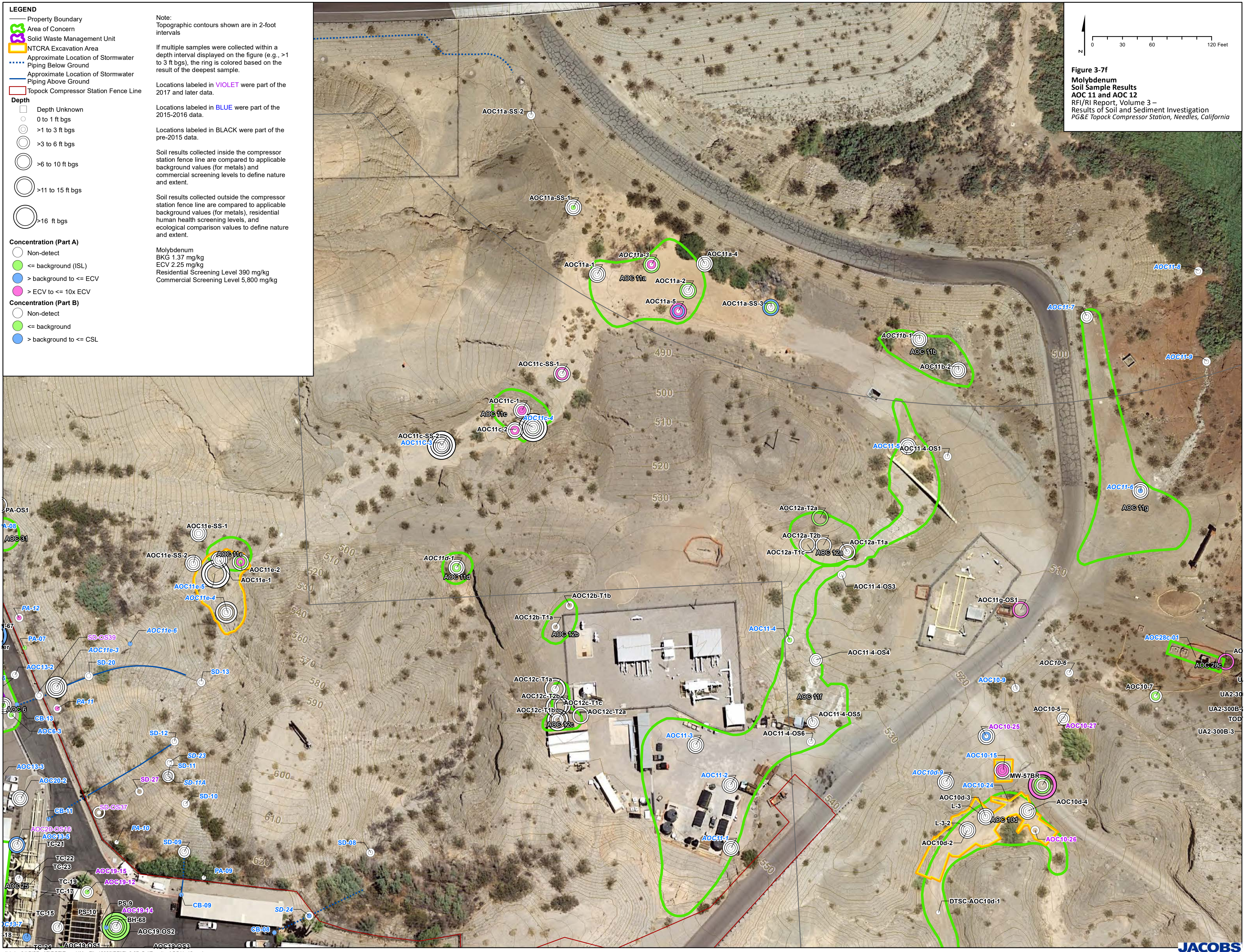


Figure 3-7f
Molybdenum
Soil Sample Results
AOC 11 and AOC 12
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

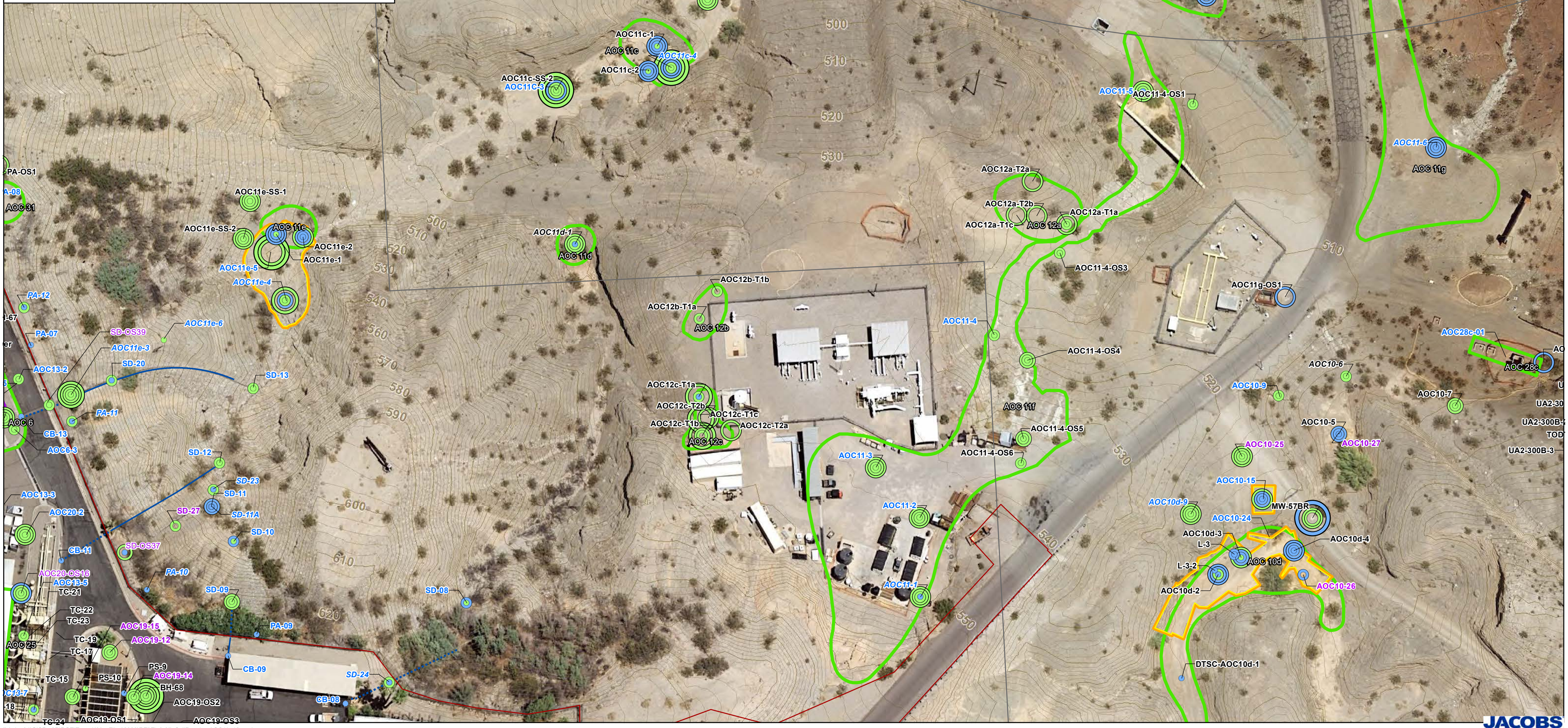
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background
- > background to <= HHSL (ISL)
- > HHSL to <= 10x HHSL
- > 10x HHSL to <= 100x HHSL

Concentration (Part B)

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

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

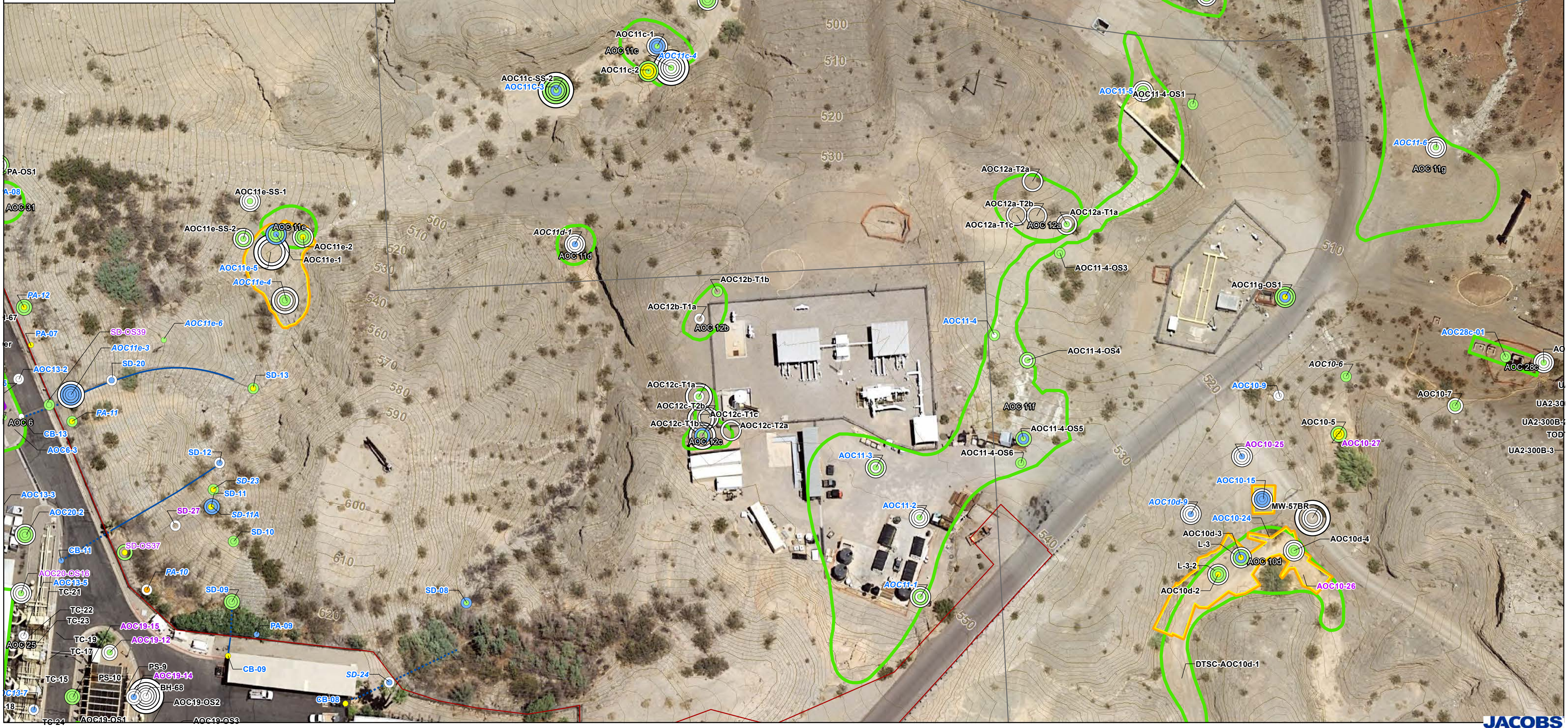
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background
- > background to <= ECV (ISL)
- > ECV to <= 10x ECV
- > 10x ECV

Concentration (Part B)

- No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

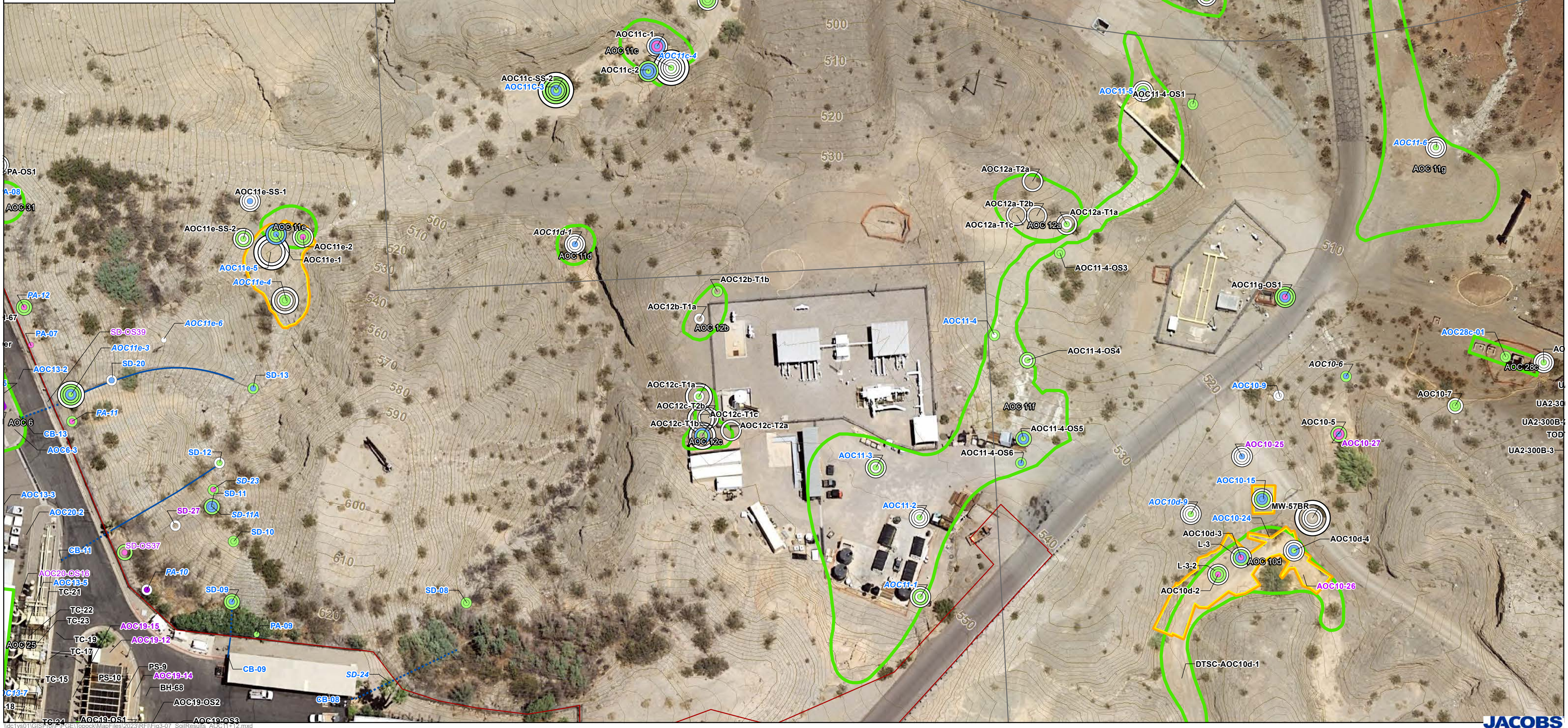
Locations labeled in **BLUE** were part of the 2015-2016 data.

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

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

PAH High molecular weight
ECV 1,160 ug/kg

Figure 3-7i
PAH High molecular weight
Soil Sample Results
AOC 11 and AOC 12
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



LEGEND

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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= HHSL (ISL)
- > HHSL to <= 10x HHSL

Concentration (Part B)

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

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

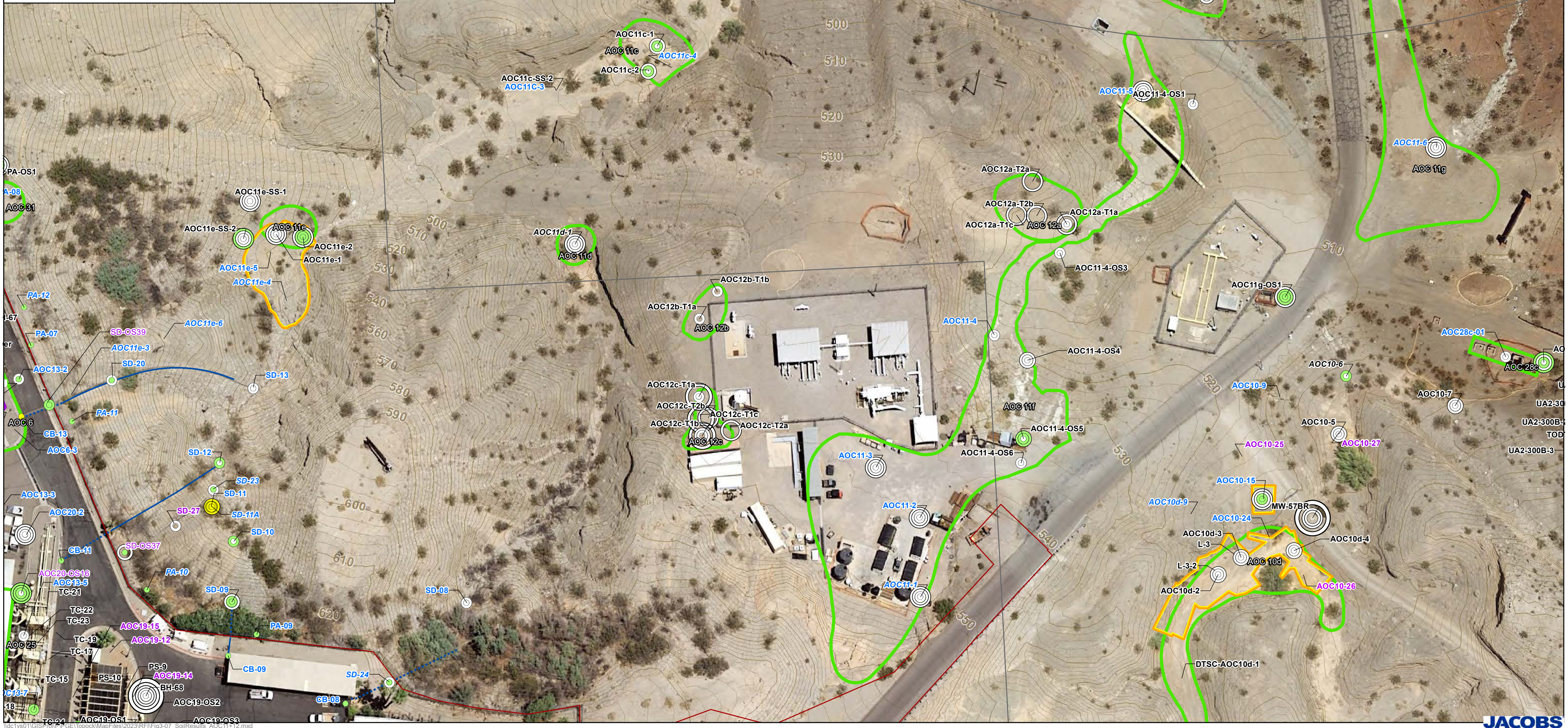
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

Figure 3-7j
TPH as diesel
Soil Sample Results
AOC 11 and AOC 12
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= HHSL (ISL)
- > HHSL to <=10x HHSL

Concentration (Part B)

- Non-detect
- <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

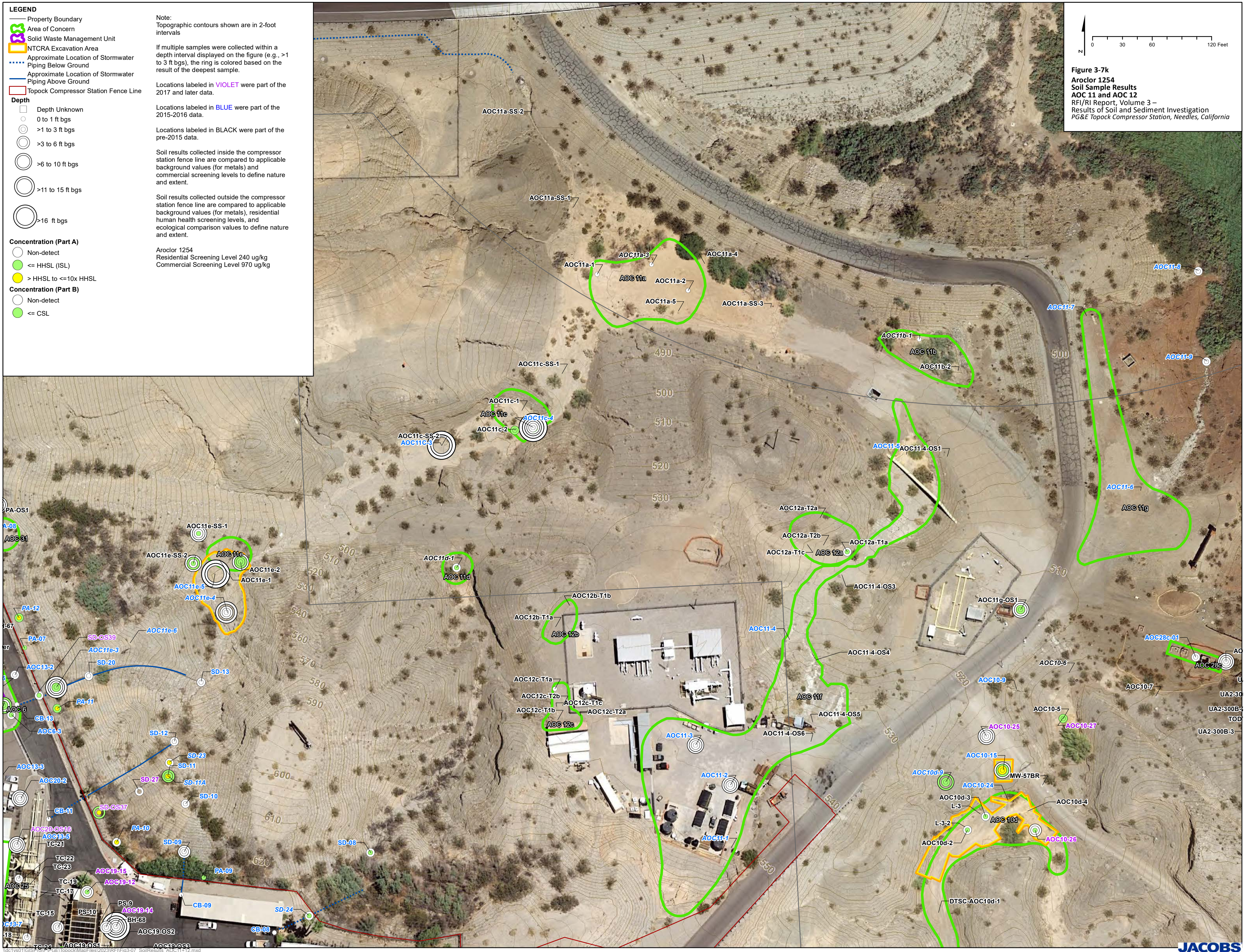
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 and AOC 12
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



LEGEND

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- 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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= ECV (ISL)
- > ECV to <= 10x ECV

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

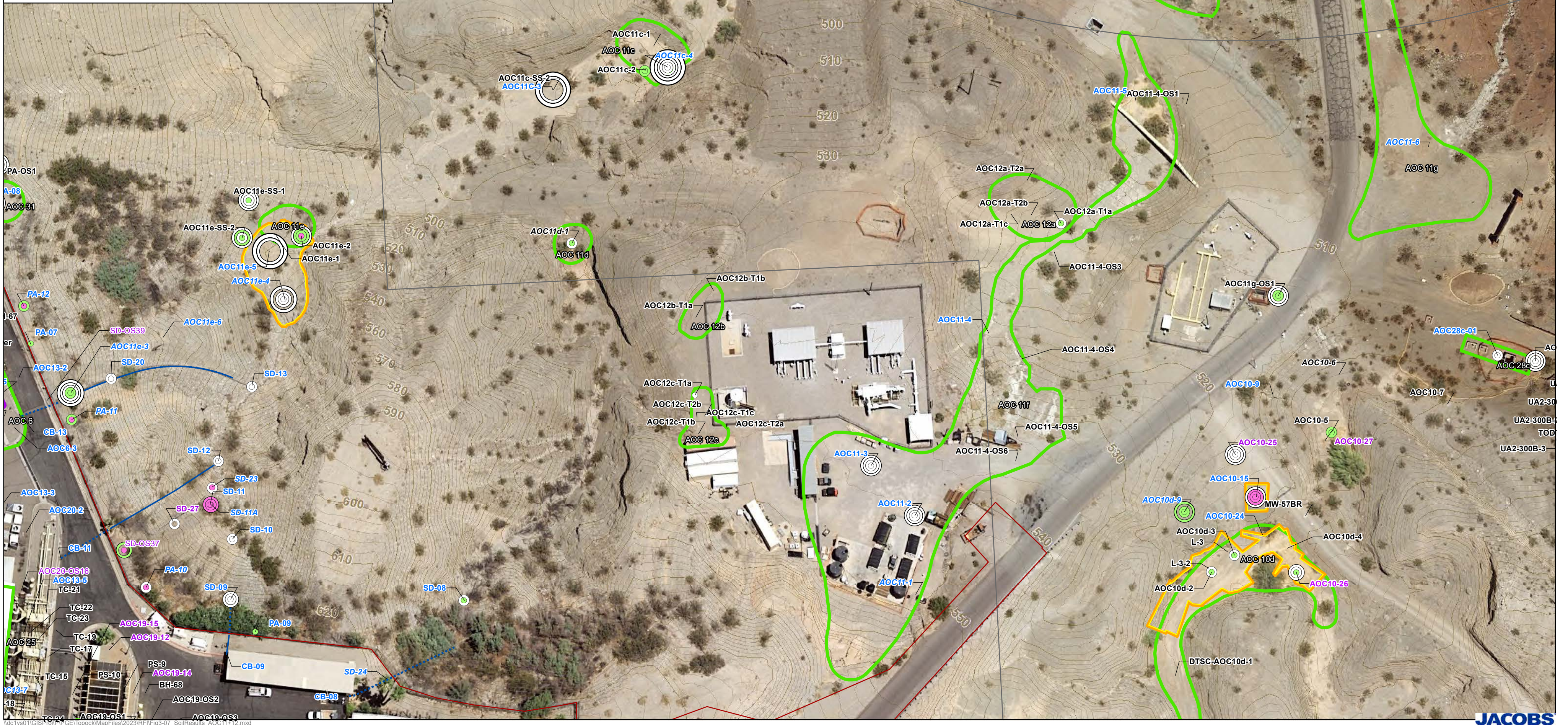
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background
- > background to <= ECV (ISL)
- > ECV to <=10x ECV
- >10x ECV to <=100x ECV
- >100x ECV

Concentration (Part B)

- No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

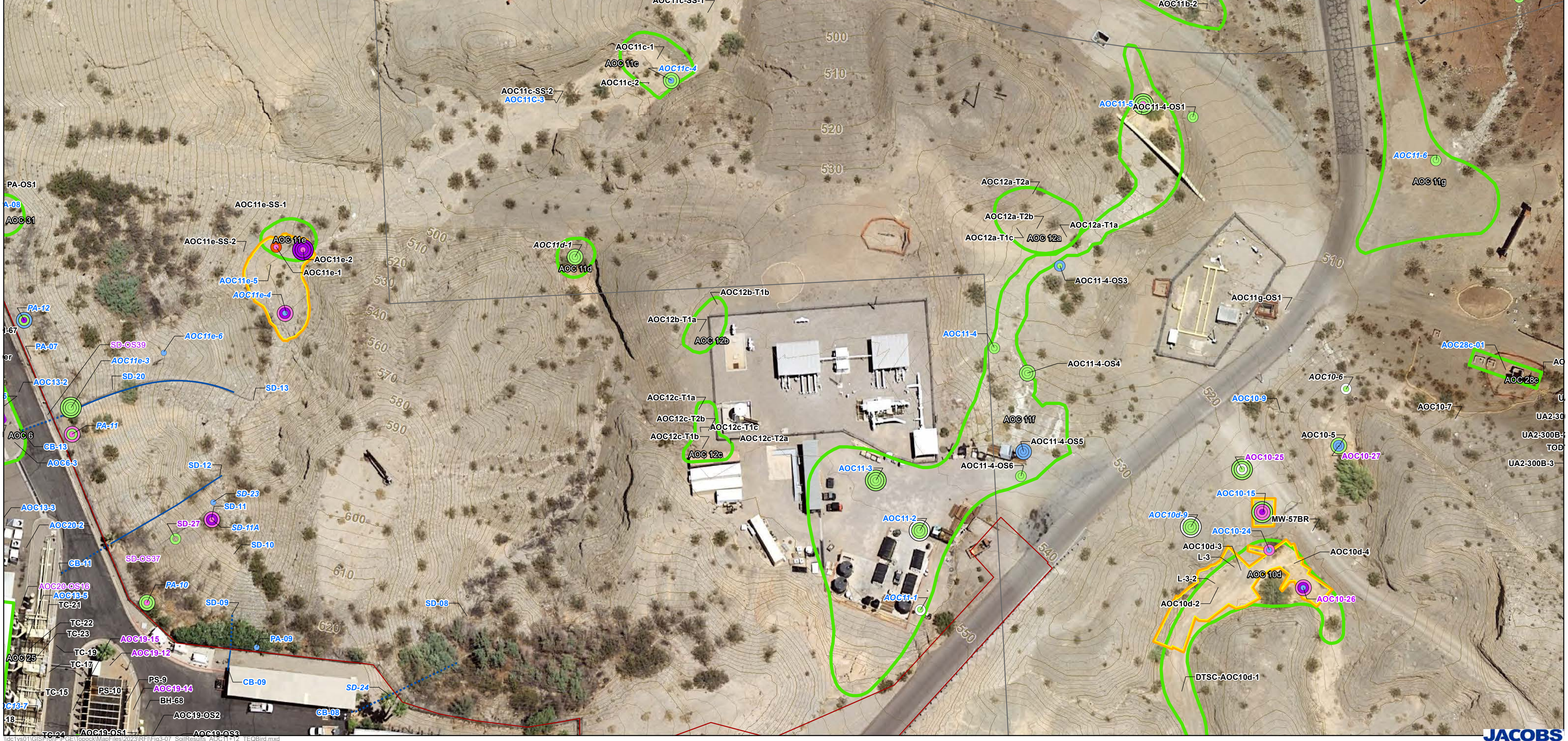
Locations labeled in **BLUE** were part of the 2015-2016 data.

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

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background
- > background to <= HHSL (ISL)
- > HHSL to <= 10x HHSL
- > 10x HHSL to <= 100x HHSL

Concentration (Part B)

- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

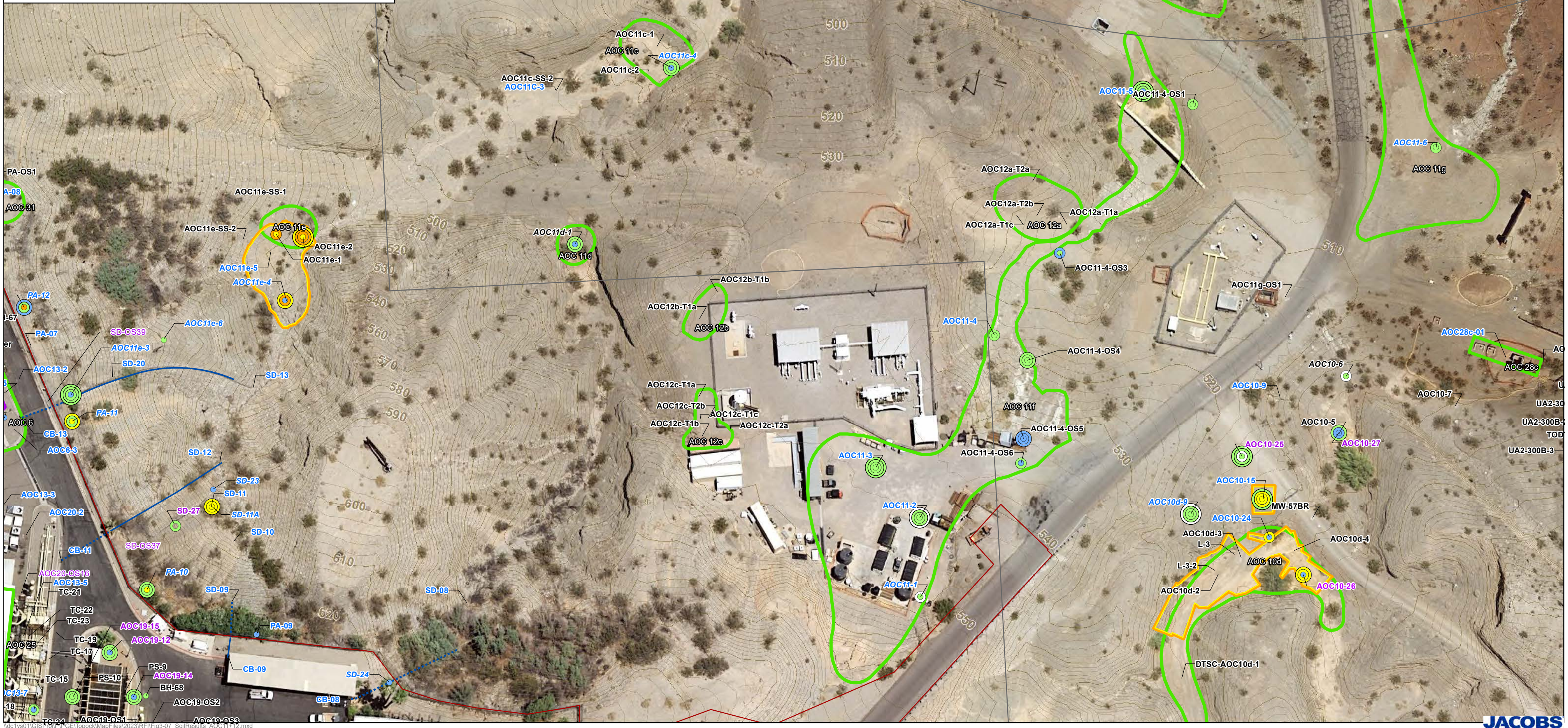
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-7n
Human Dioxins and Furans TEQ
Soil Sample Results
AOC 11 and AOC 12
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
- NTCRA Excavation Area
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

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

Concentration (Part B)

- No screening for ecological receptors

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

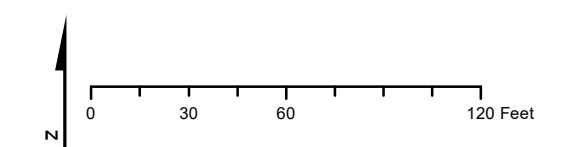
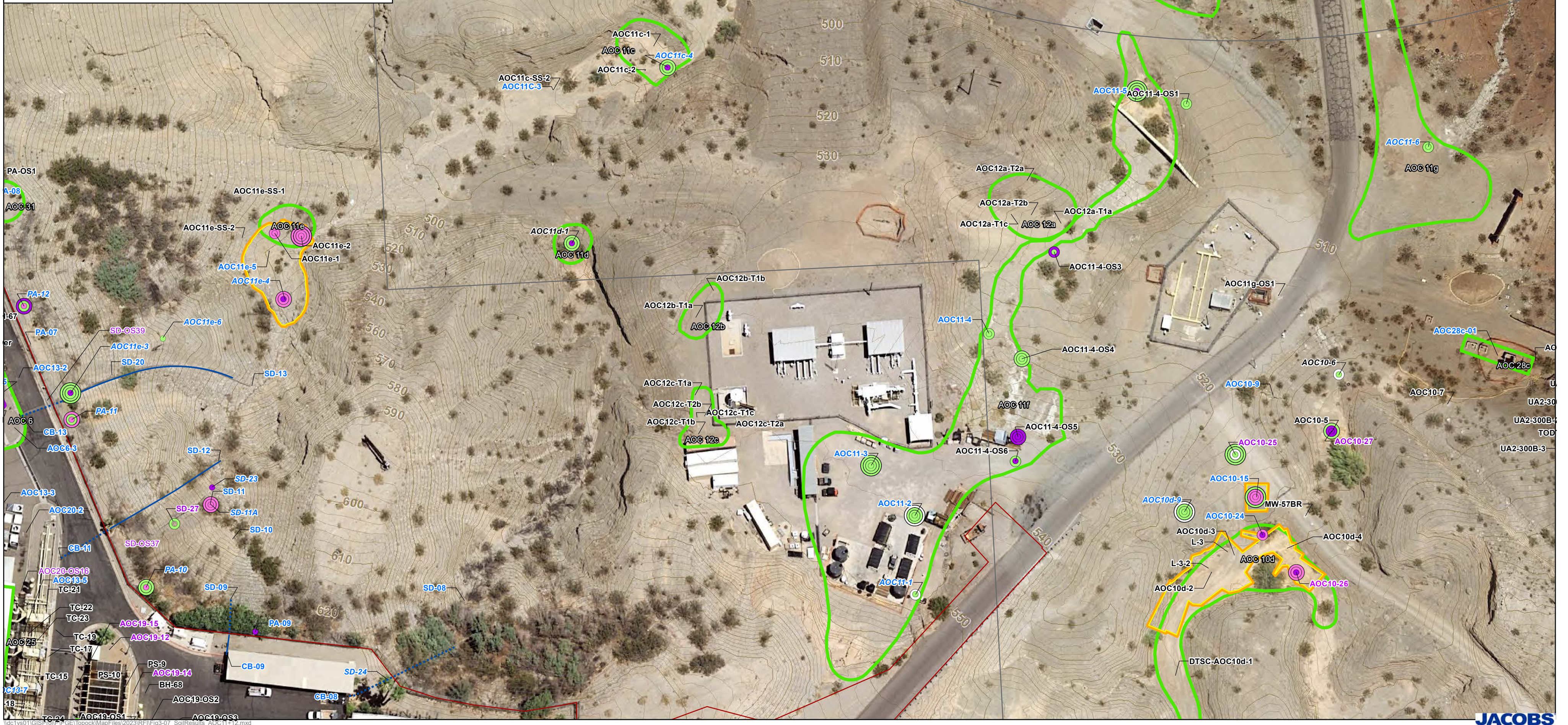


Figure 3-7o
Mammal Dioxins and Furans TEQ
Soil Sample Results
AOC 11 and AOC 12
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California





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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

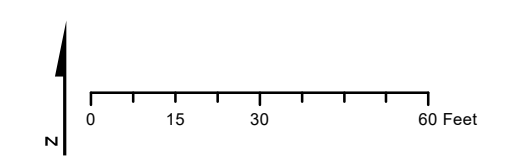


Figure 3-8b
Hexavalent Chromium
Soil Sample Results
AOC 14
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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
Interim Screening Level 39.8 mg/kg
DTSC Requested Screening Levels 100 mg/kg and 1,000 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.

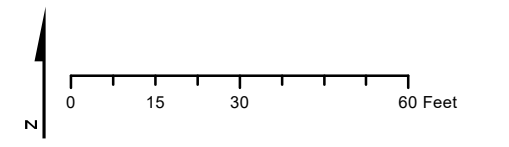
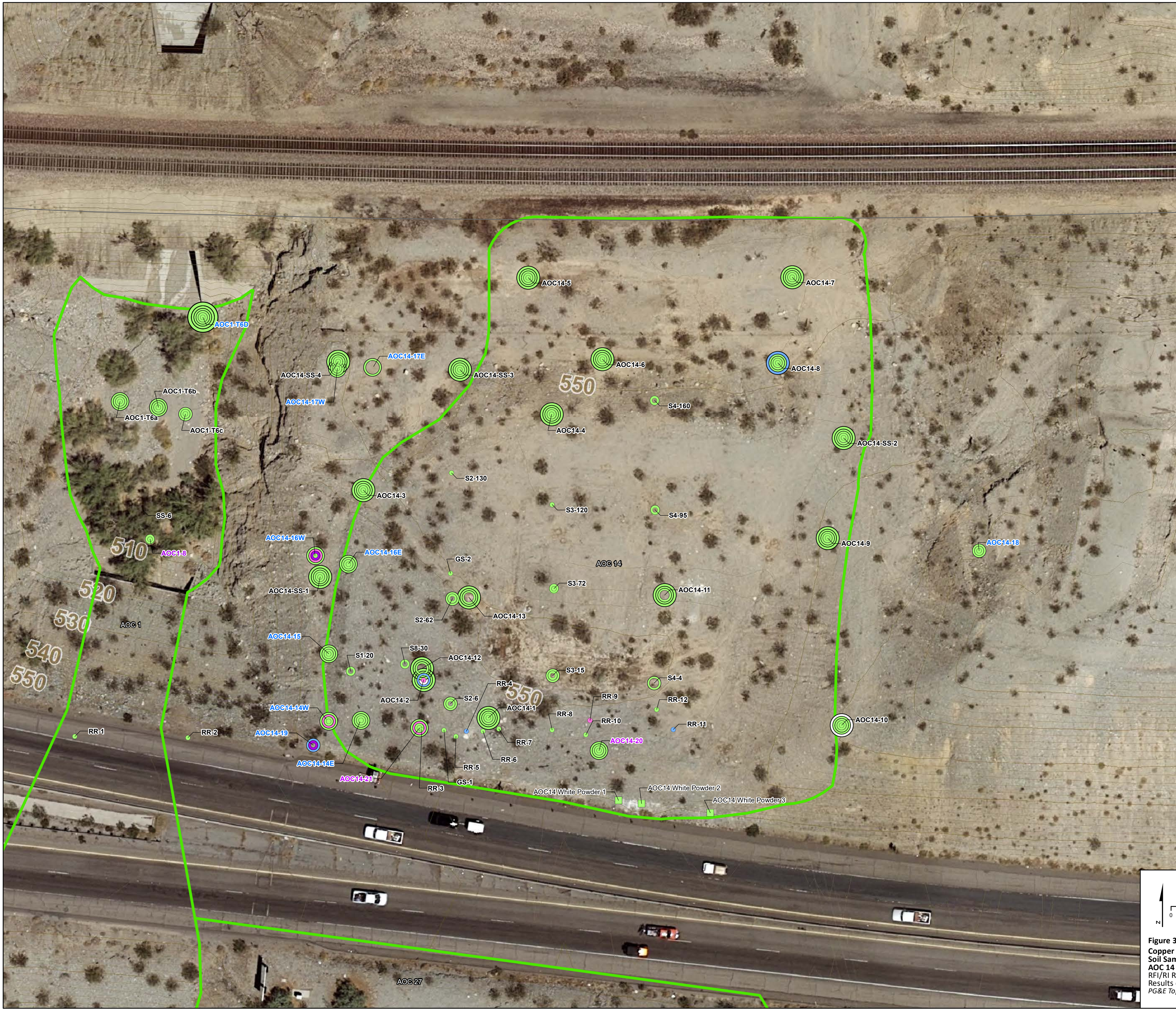


Figure 3-8c
Total Chromium
Soil Sample Results
AOC 14
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV
- >10x ECV

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

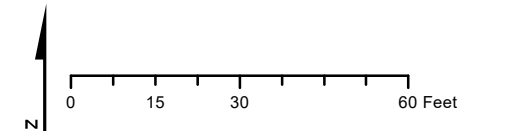
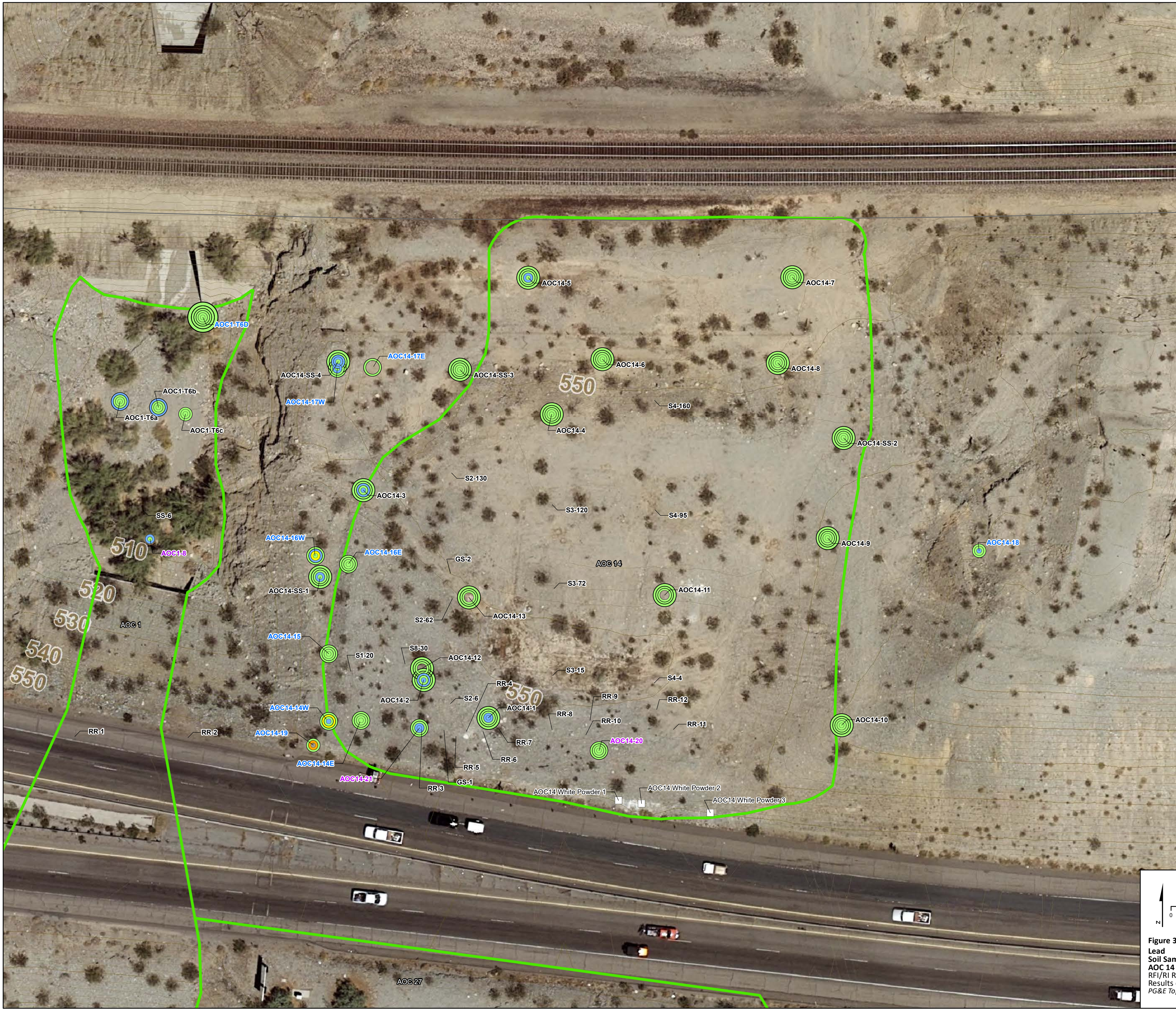


Figure 3-8d
Copper
Soil Sample Results
AOC 14
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= HHSL
- > HHSL to <= 10x HHSL
- > 10x HHSL to <= 100x HHSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

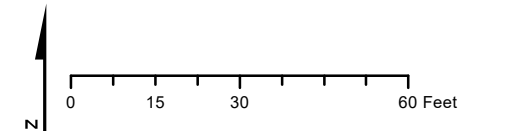


Figure 3-8e
Lead
Soil Sample Results
AOC 14
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

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

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

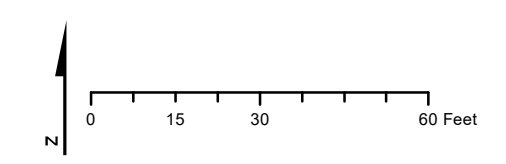
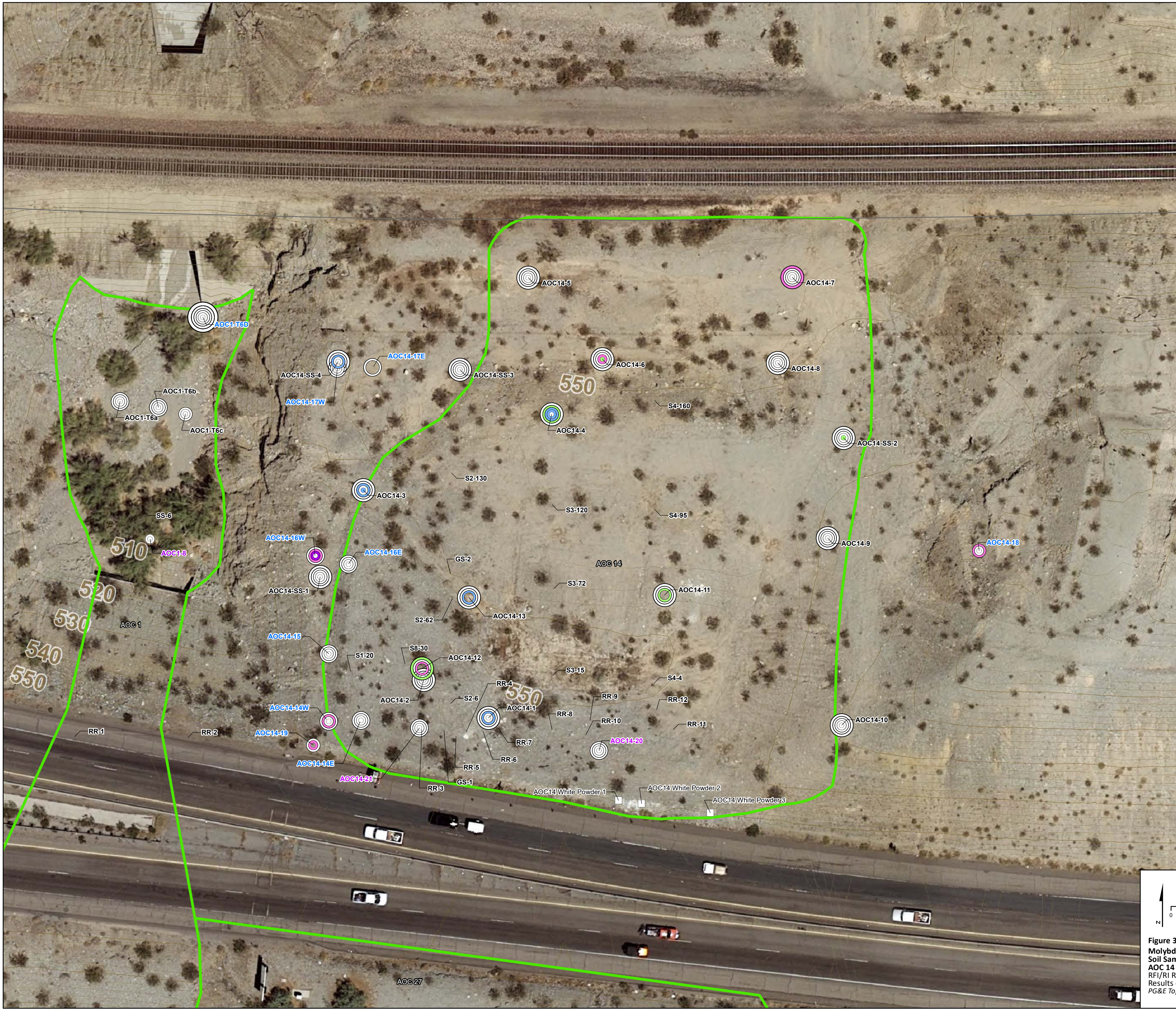


Figure 3-8f
Mercury
Soil Sample Results
AOC 14
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV
- >10x ECV

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

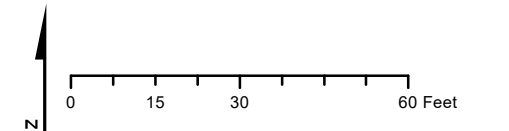


Figure 3-8g
Molybdenum
Soil Sample Results
AOC 14
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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

△ Black Sandy Material

Concentration (Part A)

- Non-detect
- <= HHSL (ISL)
- > HHSL to <=10x HHSL
- > 10x HHSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

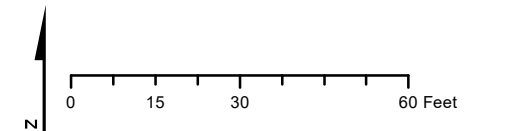


Figure 3-8j
 TPH as diesel
 Soil Sample Results
 AOC 14
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background
- > background to <= ECV (ISL)
- > ECV to <= 10x ECV
- > 10x ECV

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

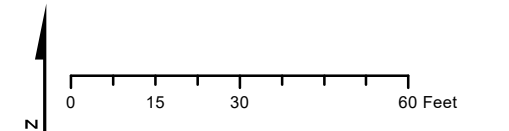


Figure 3-8k
Avian Dioxins and Furans TEQ
Soil Sample Results
AOC 14
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth

- Depth Unknown
- 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 (Part A)

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

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

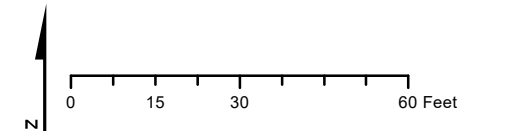


Figure 3-81
Mammal Dioxins and Furans TEQ
Soil Sample Results
AOC 14
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ ≤ background (ISL)
○ >1 to 3 ft bgs	○ > background to ≤ ECV
○ >3 to 6 ft bgs	
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

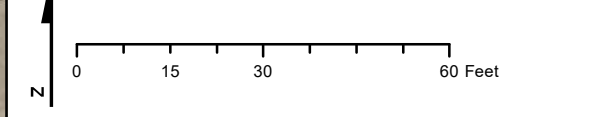
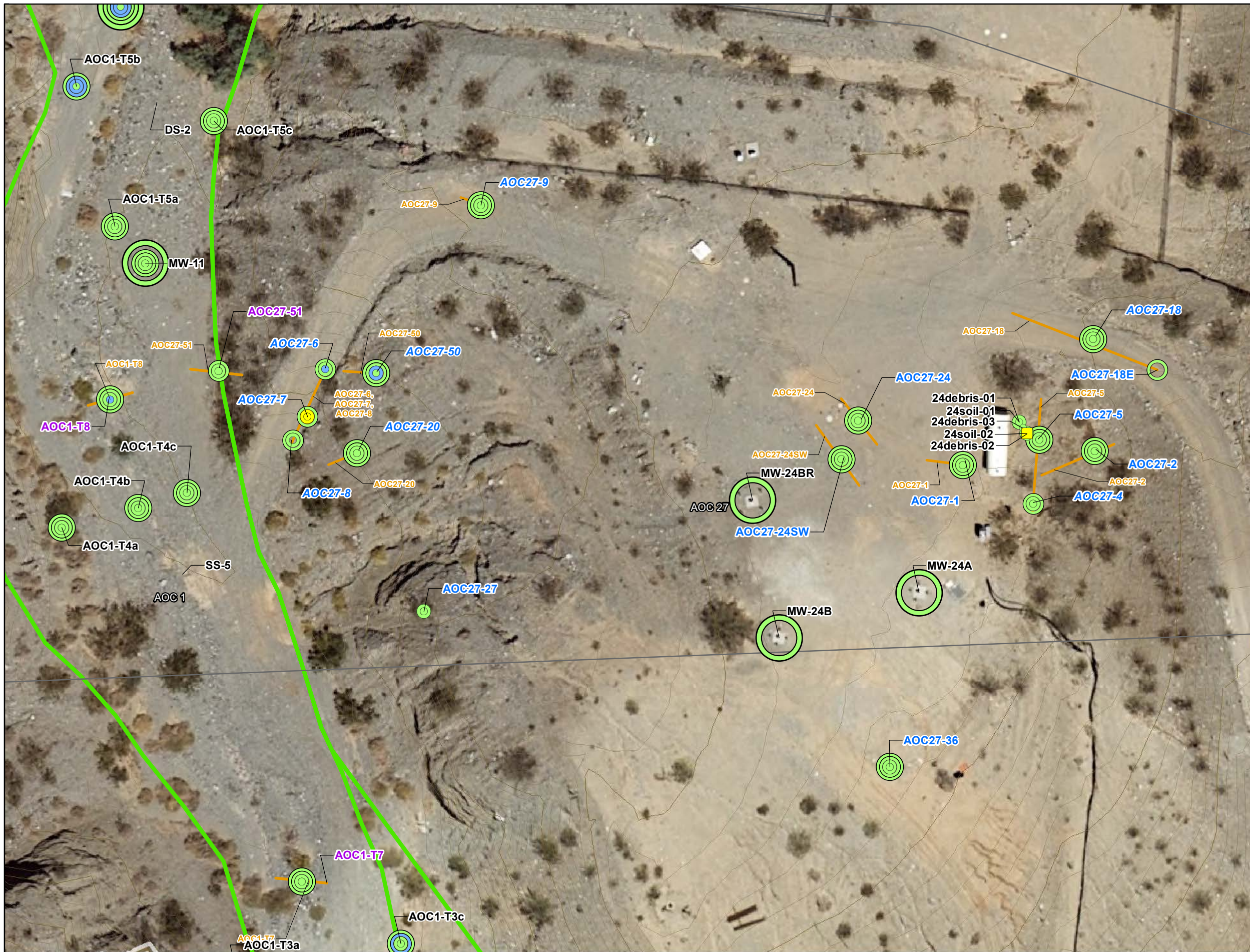


Figure 3-9b
Hexavalent Chromium
Soil Sample Results
AOC 27
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 | Concentration (Part A) |
|--------------------|--------------------------------------|
| □ Depth Unknown | ● ≤ background (ISL) |
| ○ 0 to 1 ft bgs | ● >background to ≤ DTSC SL 100 mg/kg |
| ○ >1 to 3 ft bgs | ● > DTSC SL 100 mg/kg |
| ○ >3 to 6 ft bgs | |
| ○ >6 to 10 ft bgs | |
| ○ >11 to 15 ft bgs | |
| ○ >16 ft bgs | |

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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
- Interim Screening Level 39.8 mg/kg
- DTSC Requested Screening Levels 100 mg/kg and 1,000 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.

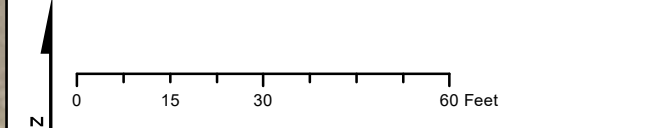
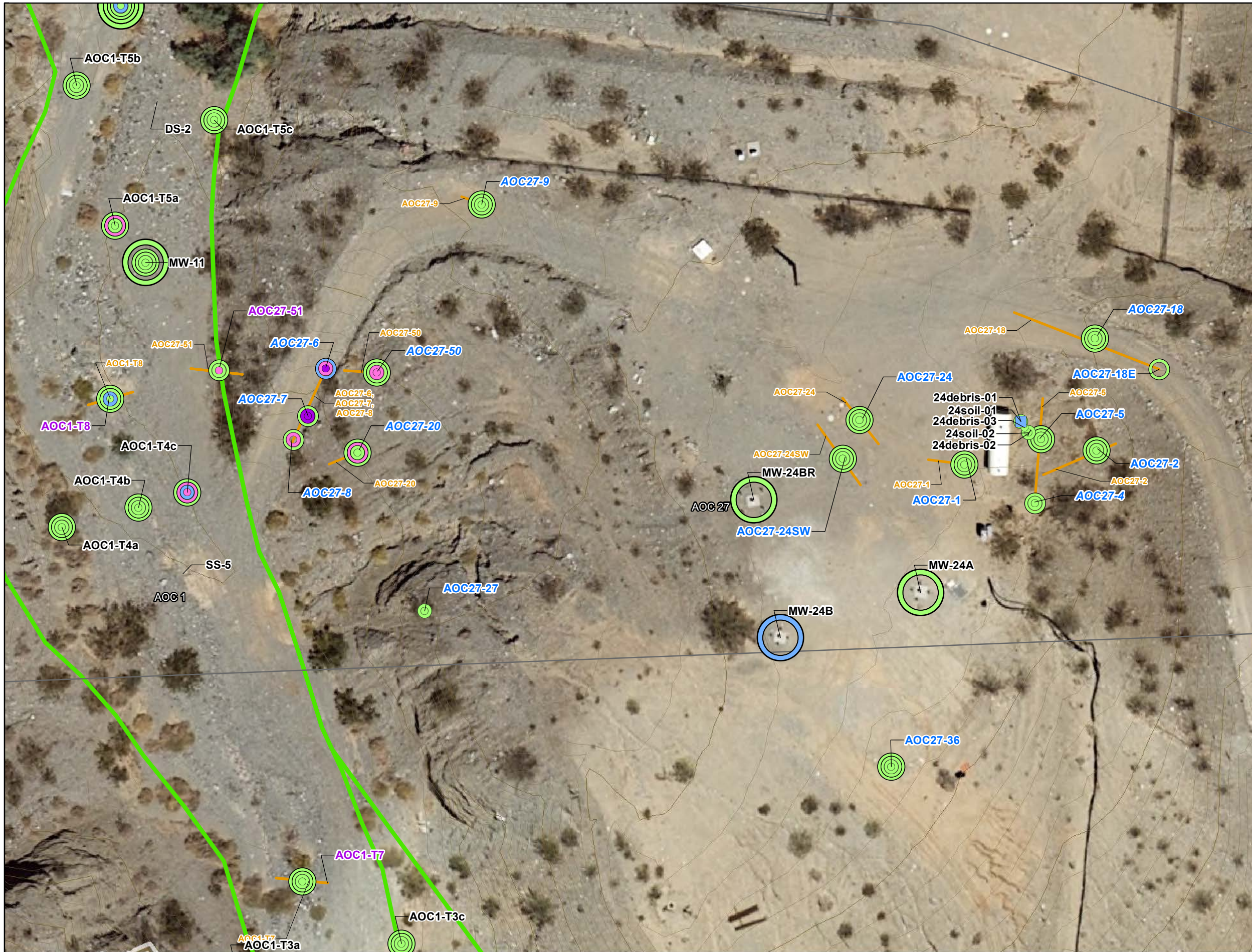


Figure 3-9c
Total Chromium
Soil Sample Results
AOC 27
 RFI/RI Report, Volume 3 –
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 PG&E Topock Compressor Station, Needles, California





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 | Concentration (Part A) |
|--------------------|-------------------------|
| □ Depth Unknown | ● ≤ background (ISL) |
| ○ 0 to 1 ft bgs | ● > background to ≤ ECV |
| ○ >1 to 3 ft bgs | ● > ECV to ≤ 10x ECV |
| ○ >3 to 6 ft bgs | ● >10x ECV |
| ○ >6 to 10 ft bgs | |
| ○ >11 to 15 ft bgs | |
| ○ >16 ft bgs | |

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

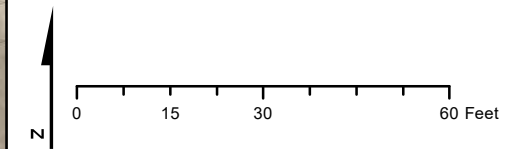
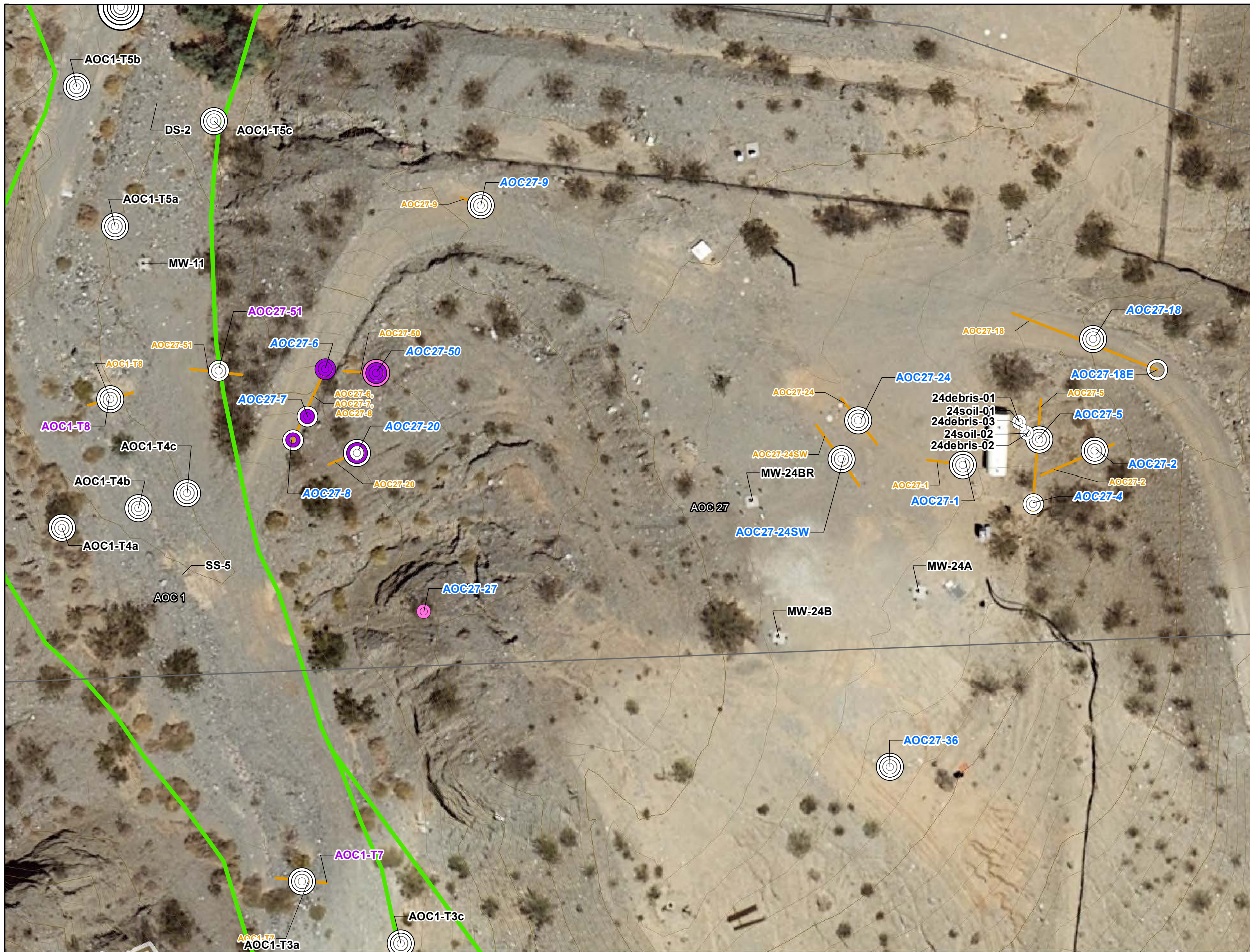


Figure 3-9d
Copper
Soil Sample Results
AOC 27
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 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ > ECV to <= 10x ECV
○ >1 to 3 ft bgs	○ > 10x ECV
○ >3 to 6 ft bgs	
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

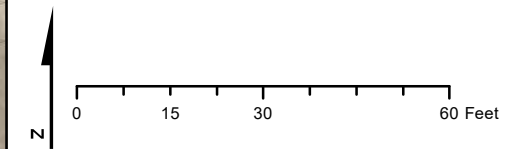
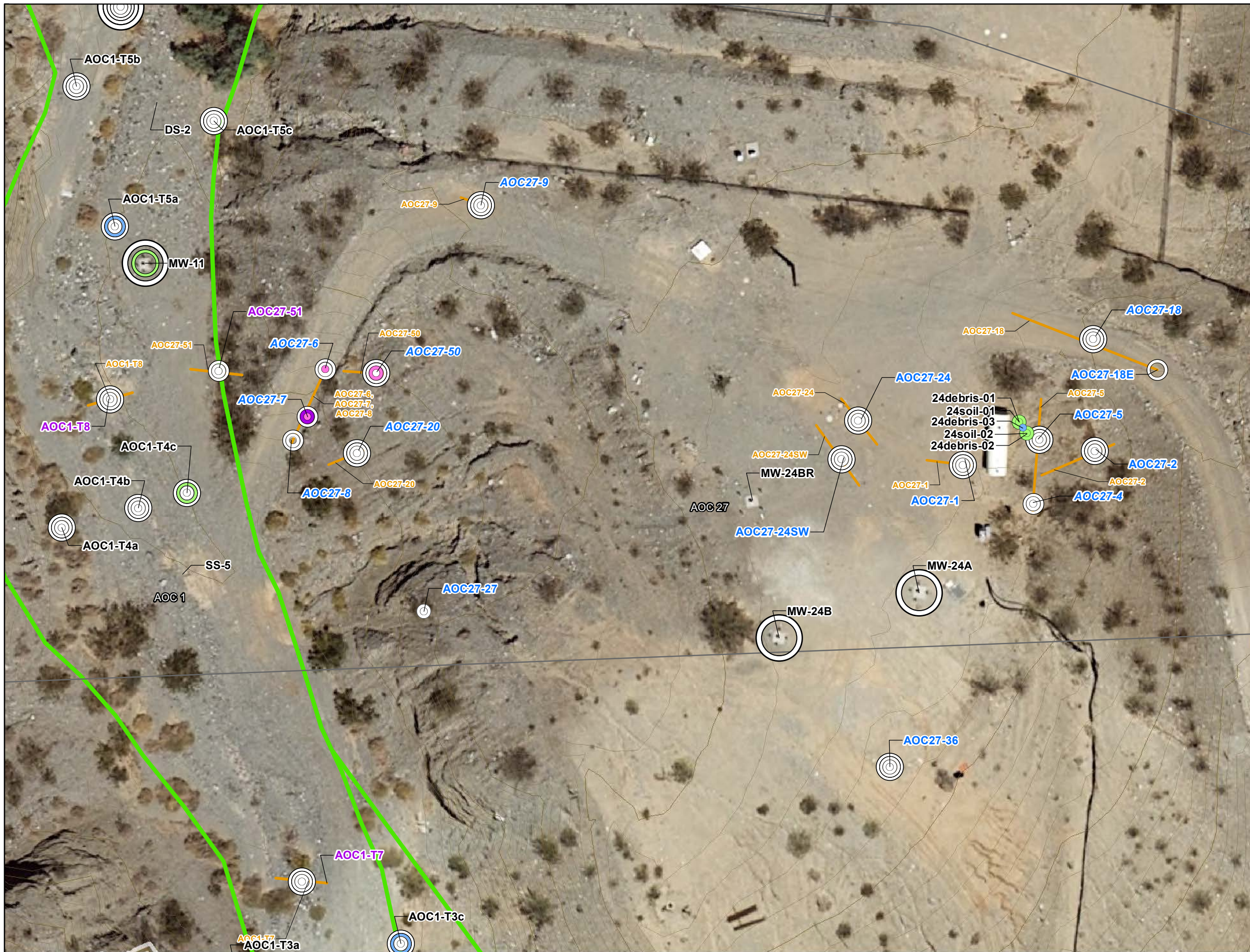


Figure 3-9f
Mercury
Soil Sample Results
AOC 27
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PG&E Topock Compressor Station, Needles, California



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	Concentration (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ <= background (ISL)
○ >1 to 3 ft bgs	○ > background to <= ECV
○ >3 to 6 ft bgs	○ > ECV to <= 10x ECV
○ >6 to 10 ft bgs	○ >10x ECV
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

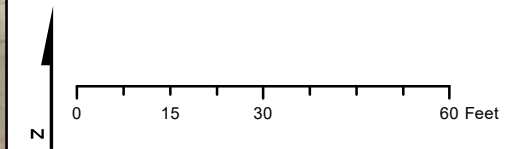
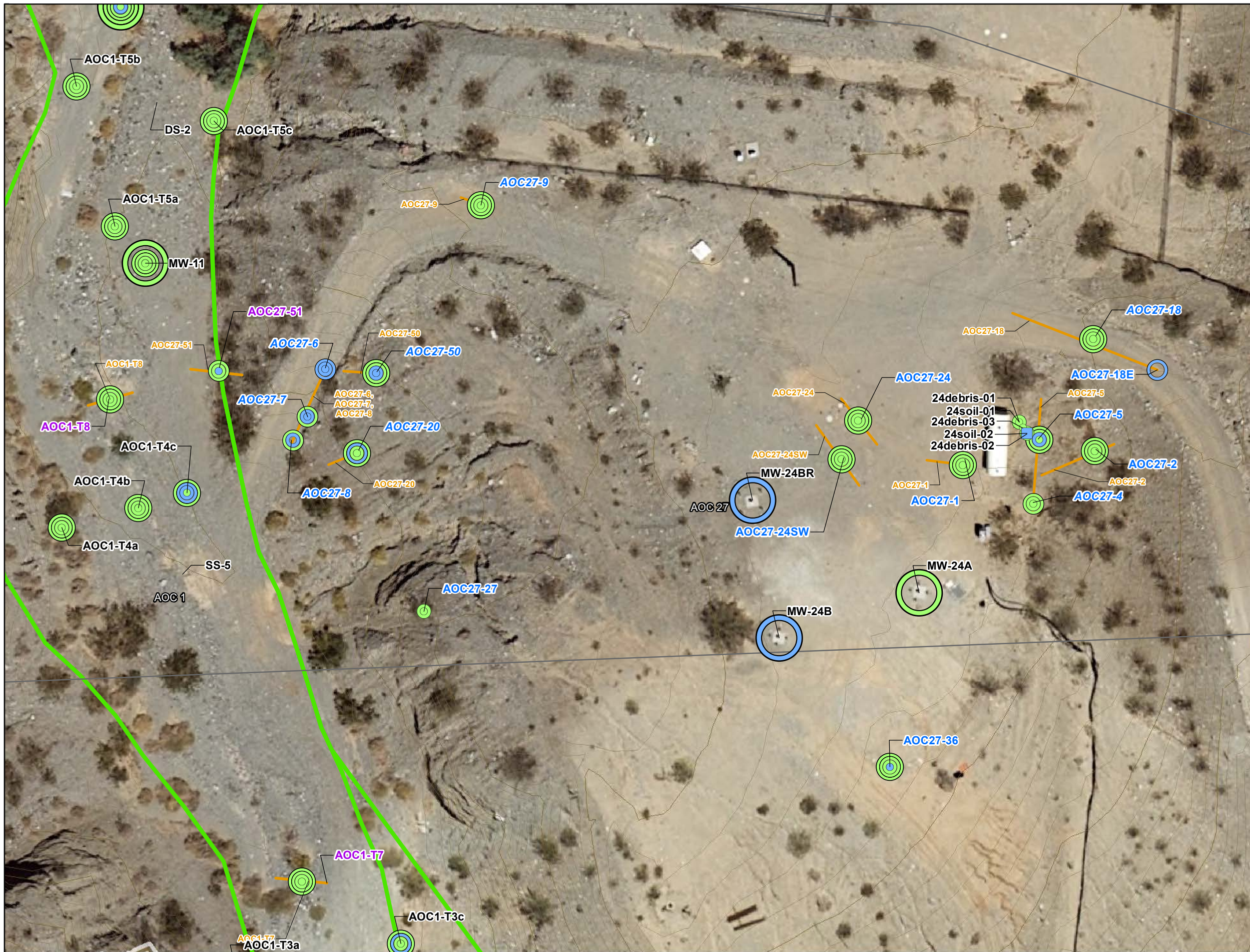


Figure 3-9g
Molybdenum
Soil Sample Results
AOC 27
 RFI/RI Report, Volume 3 –
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 PG&E Topock Compressor Station, Needles, California



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	Concentration (Part A)
□ Depth Unknown	● ≤ background (ISL)
○ 0 to 1 ft bgs	● > background to ≤ HHSL
○ >1 to 3 ft bgs	
○ >3 to 6 ft bgs	
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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.

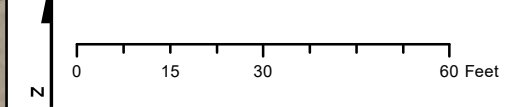


Figure 3-9h
Zinc
Soil Sample Results
AOC 27
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 PG&E Topock Compressor Station, Needles, California



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	Concentration (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ ≤ background
○ >1 to 3 ft bgs	○ > background to ≤ HHSL (ISL)
○ >3 to 6 ft bgs	○ > HHSL to ≤ 10x HHSL
○ >6 to 10 ft bgs	○ > 10x HHSL to ≤ 100x HHSL
○ >11 to 15 ft bgs	○ > 100x HHSL
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

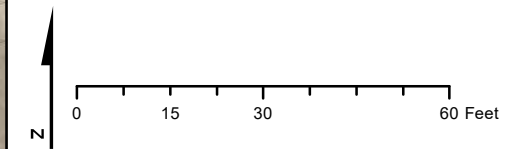
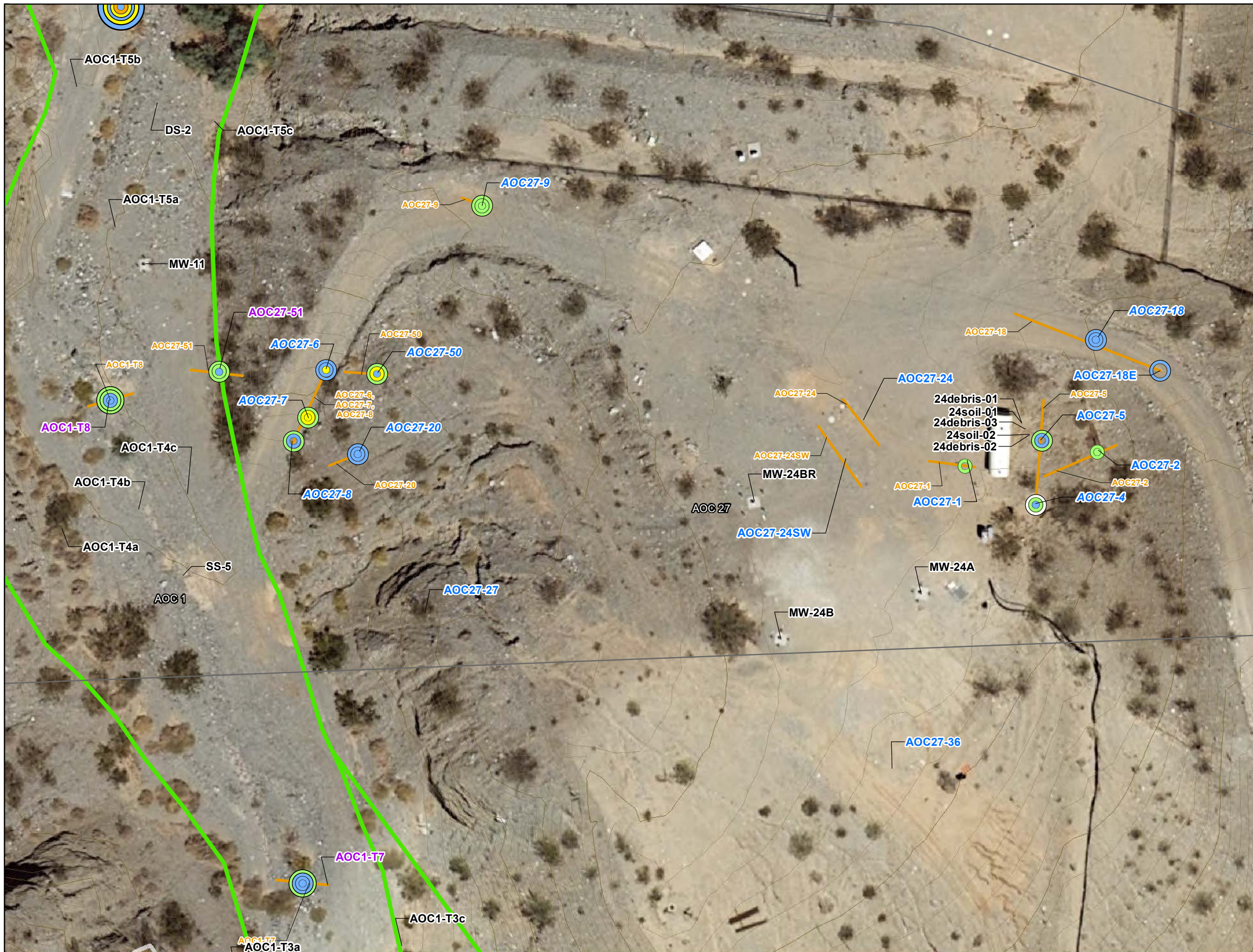


Figure 3-9i
Benzo(a)Pyrene Equivalent
Soil Sample Results
AOC 27
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 PG&E Topock Compressor Station, Needles, California



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	Concentration (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ ≤ background
○ >1 to 3 ft bgs	○ > background to ≤ HHSL (ISL)
○ >3 to 6 ft bgs	○ > HHSL to ≤ 10x HHSL
○ >6 to 10 ft bgs	○ > 10x HHSL to ≤ 100x HHSL
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

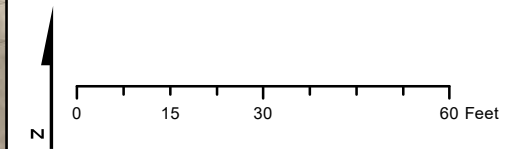
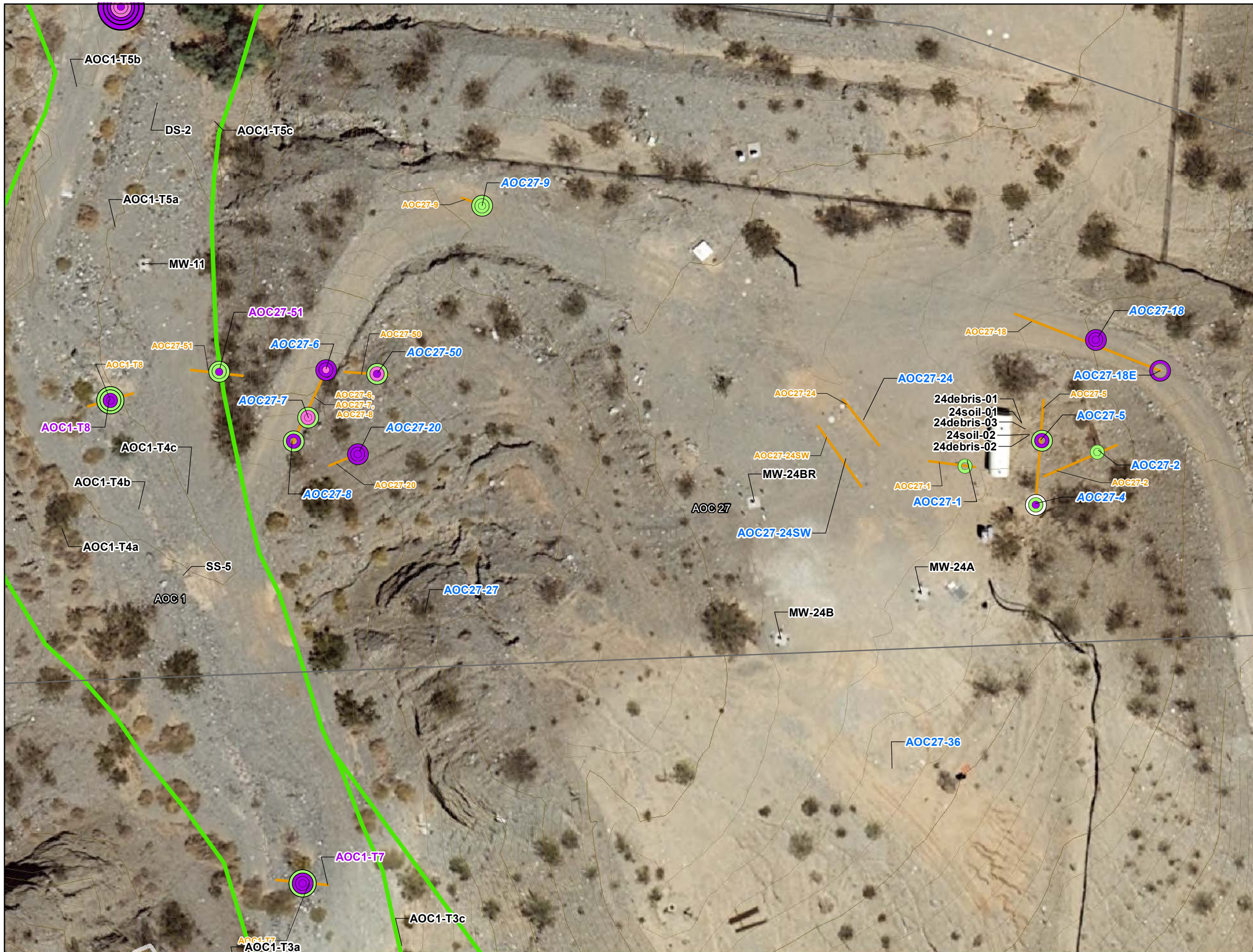


Figure 3-9I
Human Dioxins and Furans TEQ
Soil Sample Results
AOC 27
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 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	○ ≤ background (ISL)
○ >1 to 3 ft bgs	○ > background to ≤10x background
○ >3 to 6 ft bgs	○ > 10x background
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

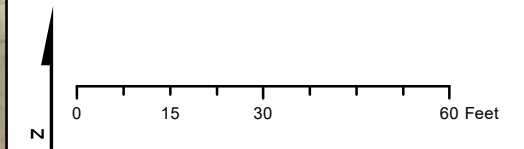


Figure 3-9m
Mammal Dioxins and Furans TEQ
Soil Sample Results
AOC 27
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 screening level is set at the background value.

LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Former/Abandoned Transfer Piping
- Active Transfer Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > ECV to <= 10x ECV

Concentration (Part B)

- Non-detect
- <= background
- > background

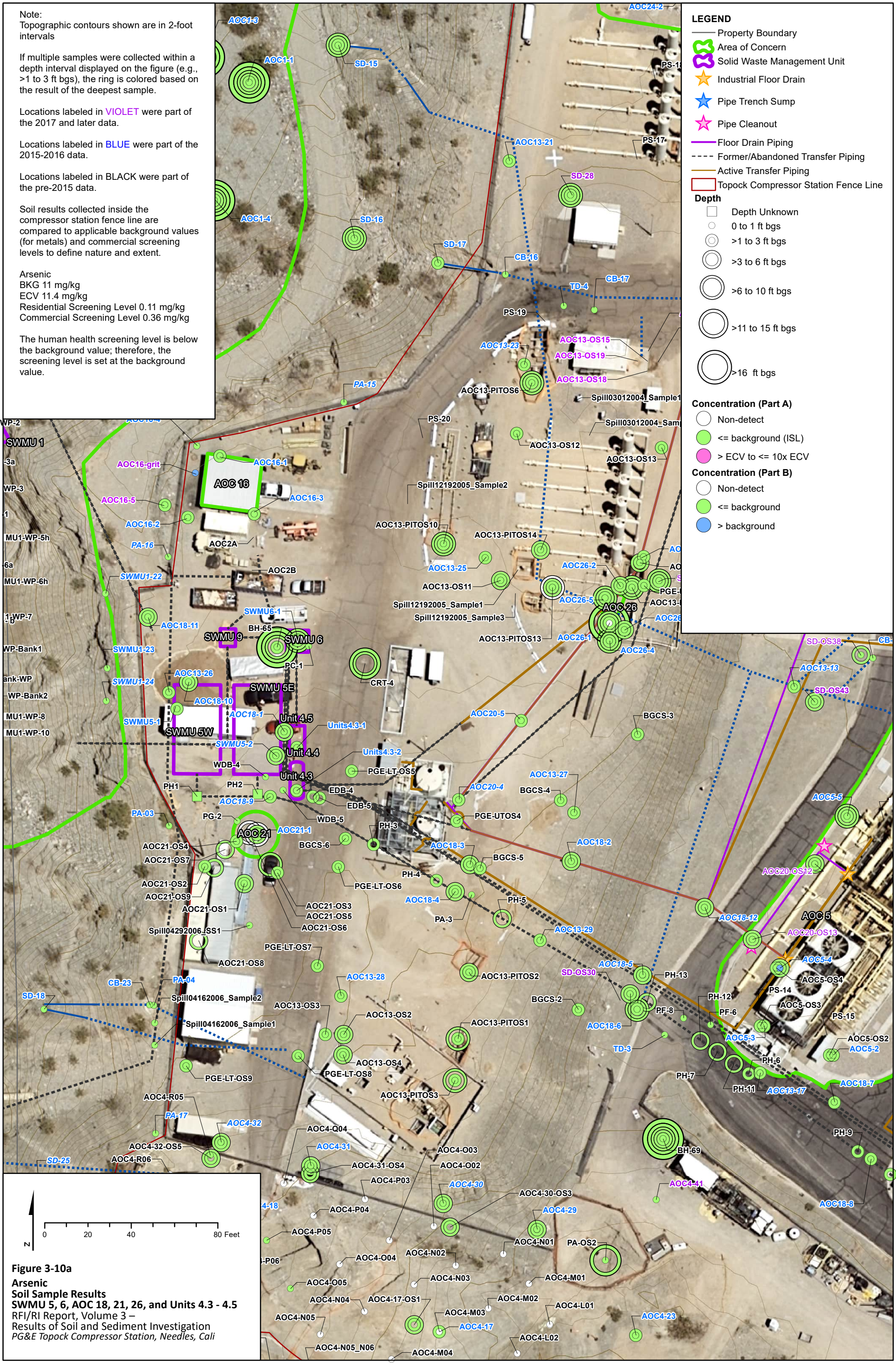


Figure 3-10a
Arsenic Soil Sample Results
SWMU 5, 6, AOC 18, 21, 26, and Units 4.3 - 4.5
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, Cali

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., 1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Former/Abandoned Transfer Piping
- Active Transfer Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV

Concentration (Part B)

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

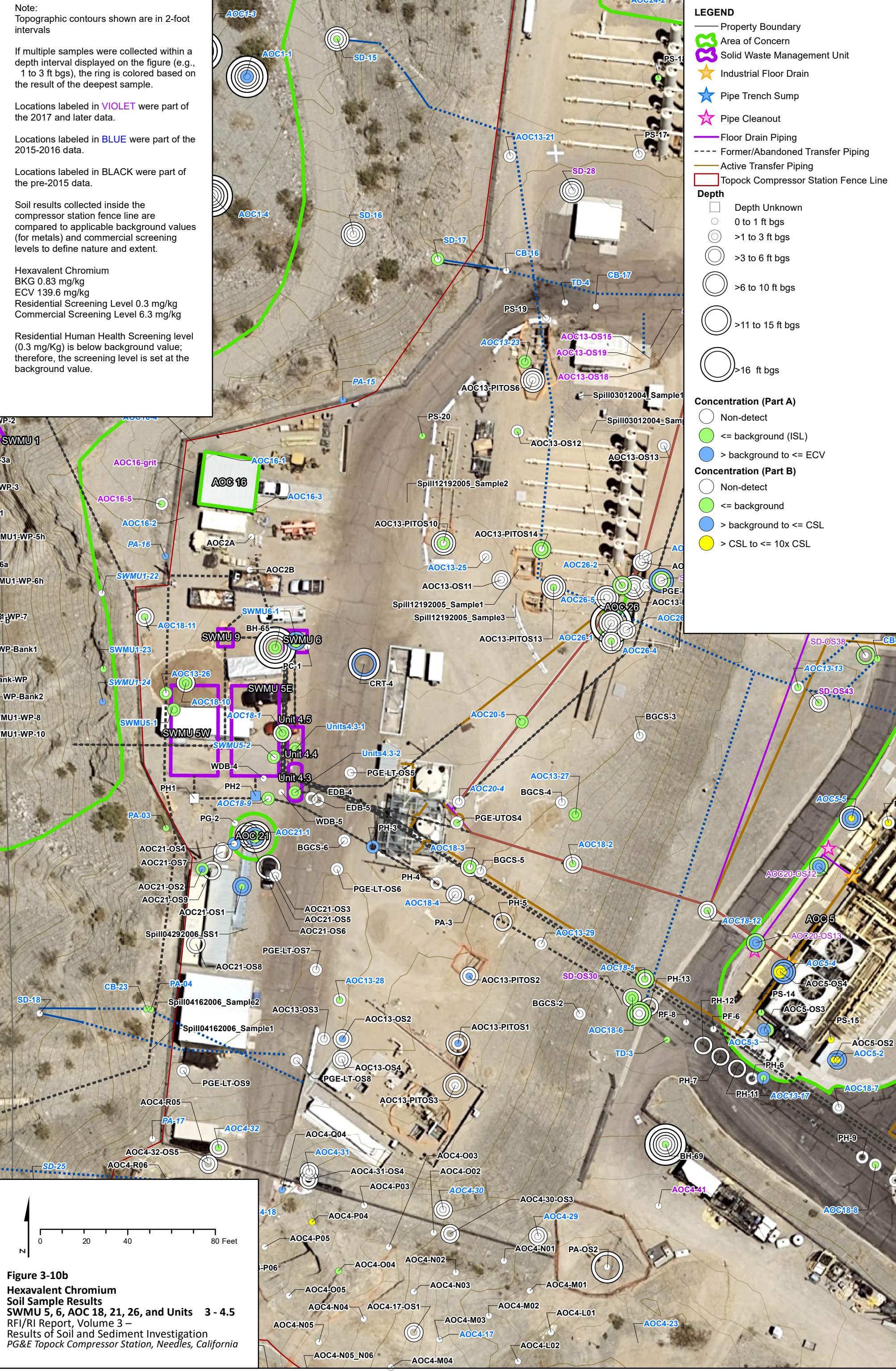


Figure 3-10b
Hexavalent Chromium
Soil Sample Results
SWMU 5, 6, AOC 18, 21, 26, and Units 3 - 4.5
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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
Interim Screening Level 39.8 mg/kg
DTSC Requested Screening Levels 100 mg/kg and 1,000 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.

LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Active Transfer Piping
- Former/Abandoned Transfer Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg
- > DTSC SL 1,000 mg/kg

Concentration (Part B)

- Non-detect
- <= background
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg

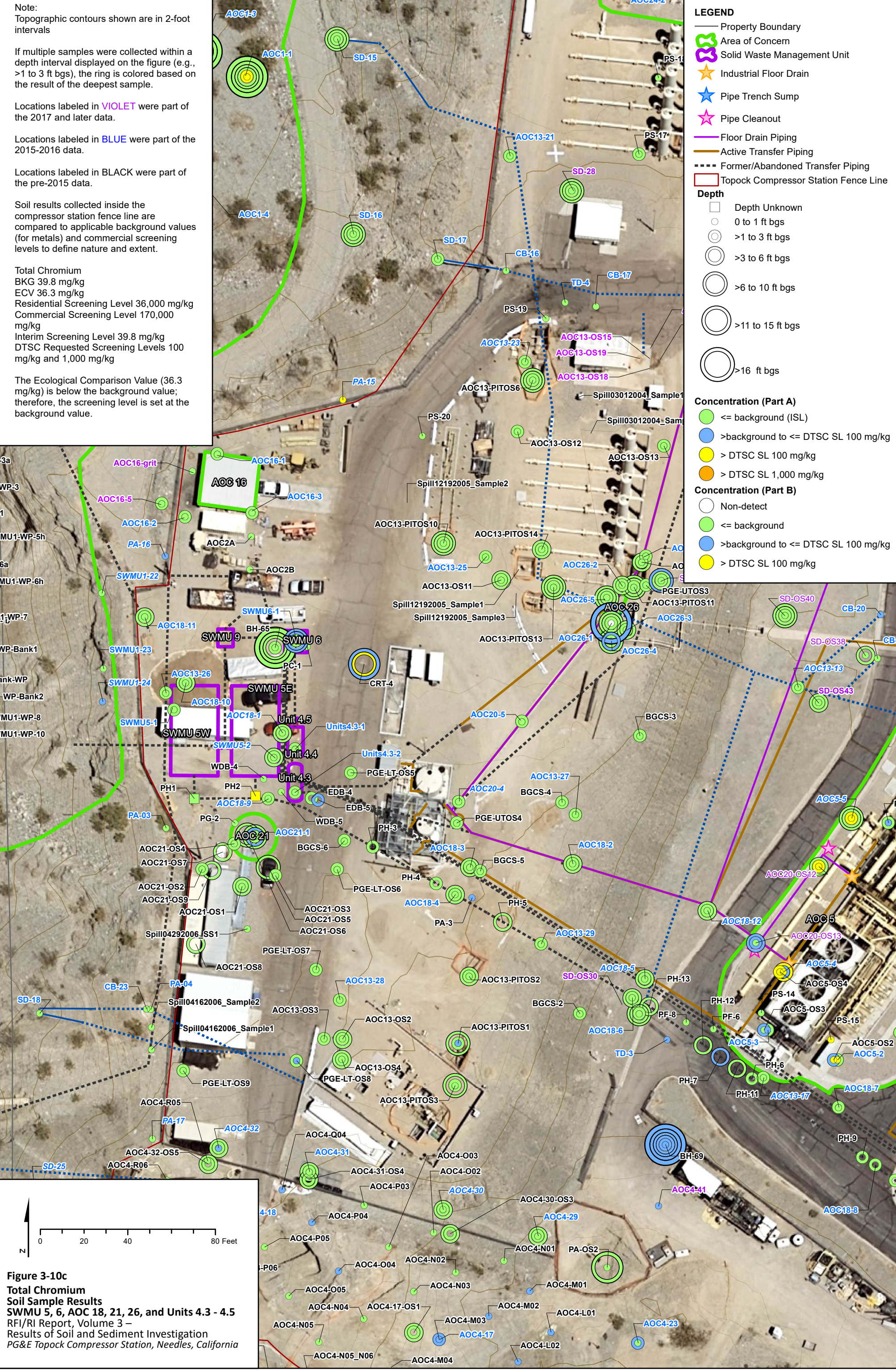


Figure 3-10c
Total Chromium
Soil Sample Results
SWMU 5, 6, AOC 18, 21, 26, and Units 4.3 - 4.5
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Former/Abandoned Transfer Piping
- Active Transfer Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- Non-detect
- <= background
- > background to <= CSL

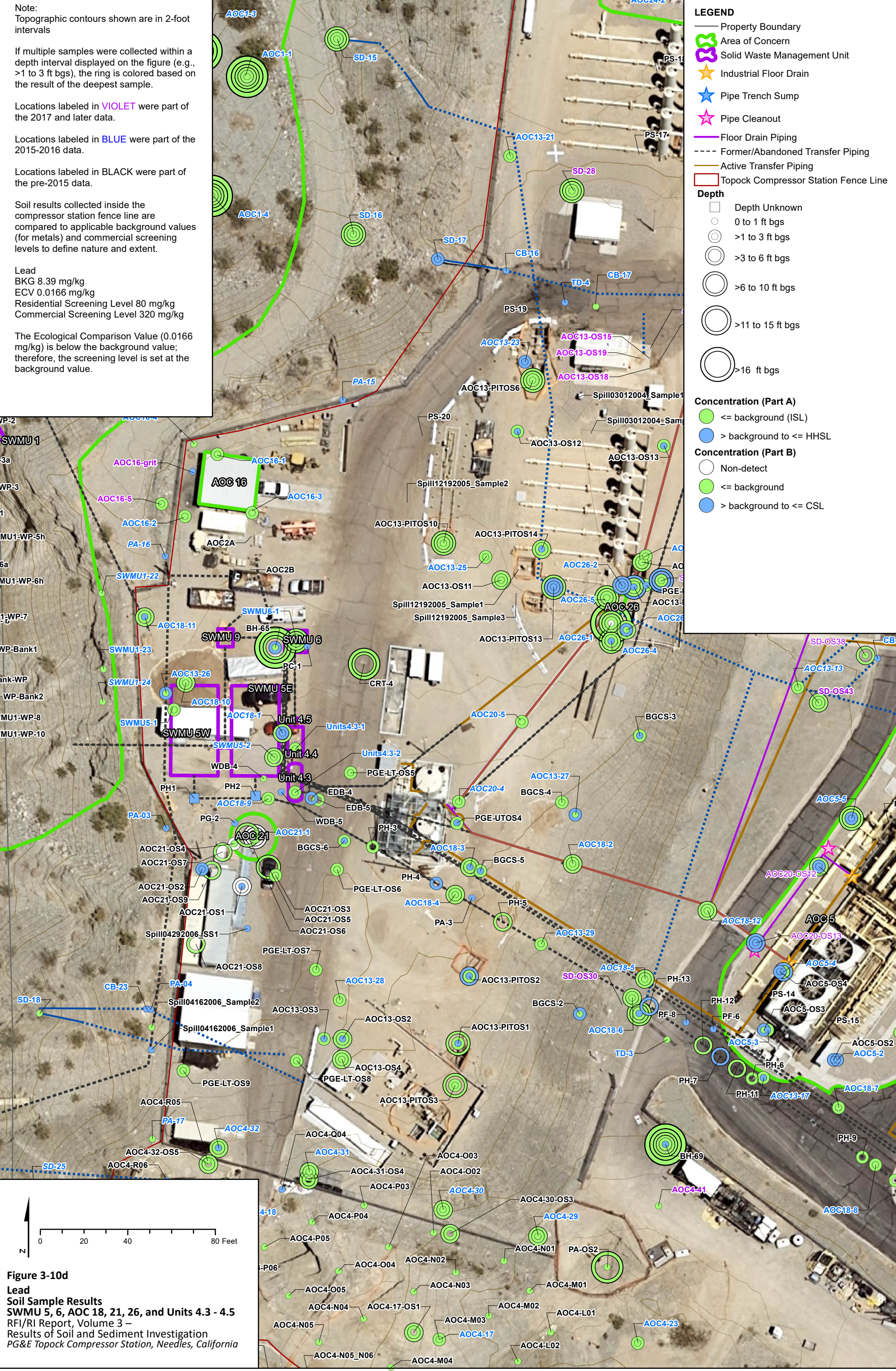


Figure 3-10d
Lead
Soil Sample Results
SWMU 5, 6, AOC 18, 21, 26, and Units 4.3 - 4.5
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Former/Abandoned Transfer Piping
- Active Transfer Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- Non-detect
- <= background
- > background to <= CSL

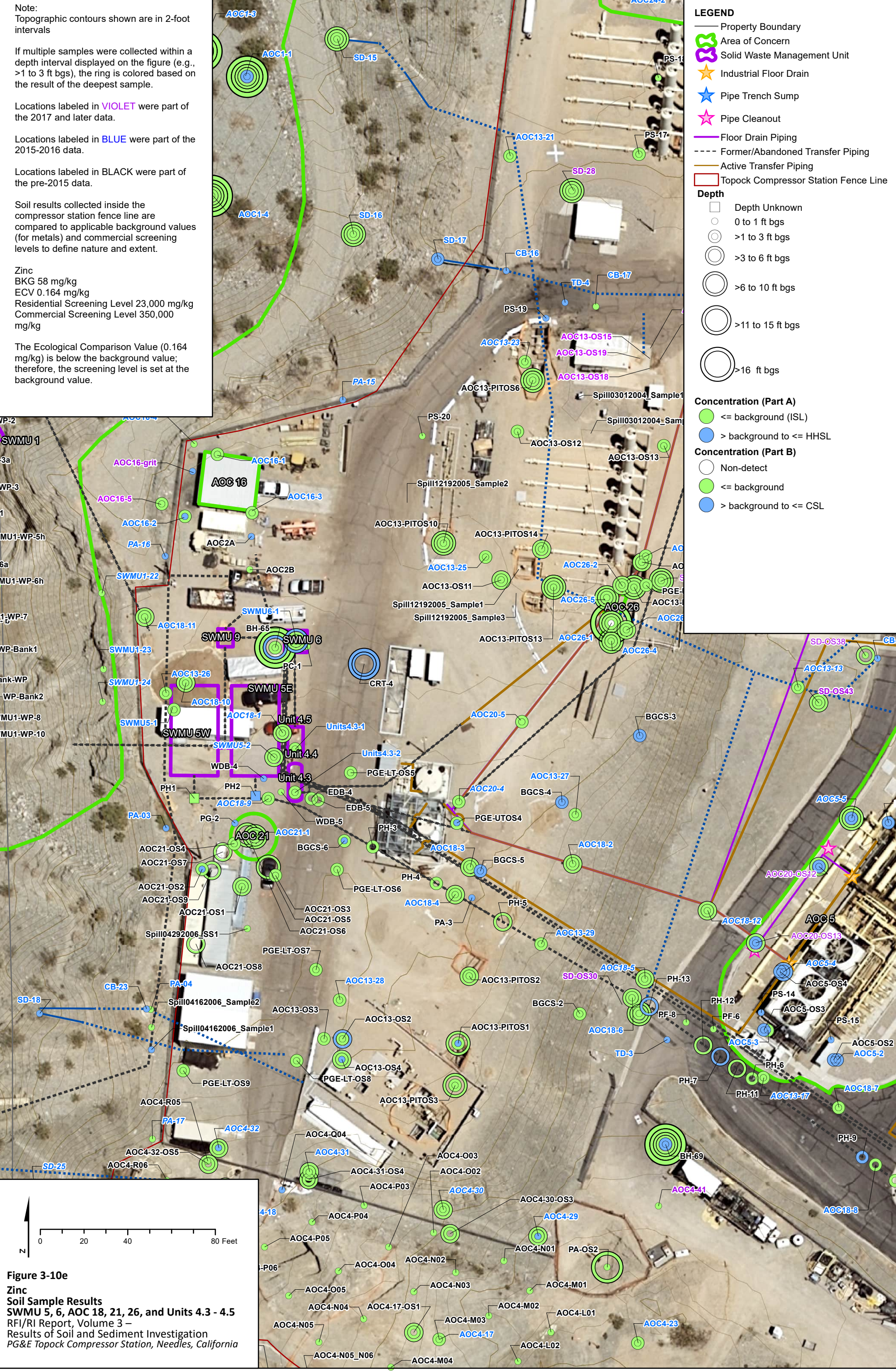


Figure 3-10e
Zinc
Soil Sample Results
SWMU 5, 6, AOC 18, 21, 26, and Units 4.3 - 4.5
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Calcium
BKG 66,500 mg/kg

LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- ★ Industrial Floor Drain
- ★ Pipe Trench Sump
- ★ Pipe Cleanout
- Floor Drain Piping
- Former/Abandoned Transfer Piping
- Active Transfer Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- ≤ background (ISL)
- > background

Concentration (Part B)

- ≤ background
- > background

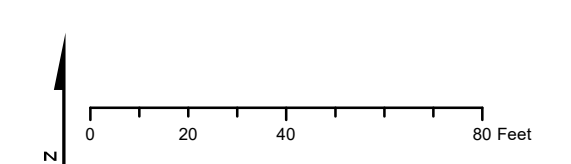
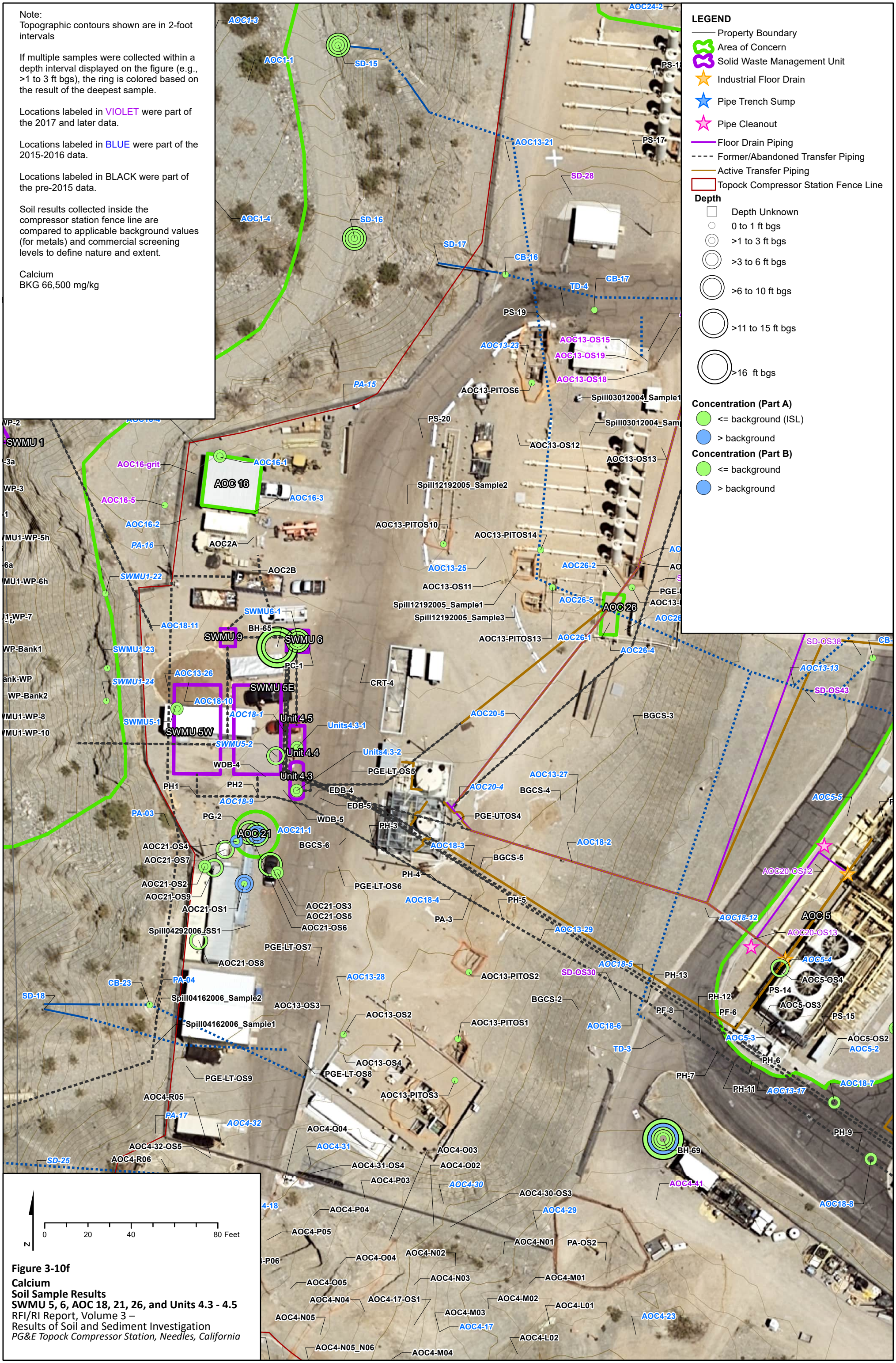


Figure 3-10f
Calcium
Soil Sample Results
SWMU 5, 6, AOC 18, 21, 26, and Units 4.3 - 4.5
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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

LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Former/Abandoned Transfer Piping
- Active Transfer Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background
- > background to <= HHSL (ISL)
- > HHSL to <= 10x HHSL
- > 10x HHSL to <= 100x HHSL
- > 100x HHSL

Concentration (Part B)

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

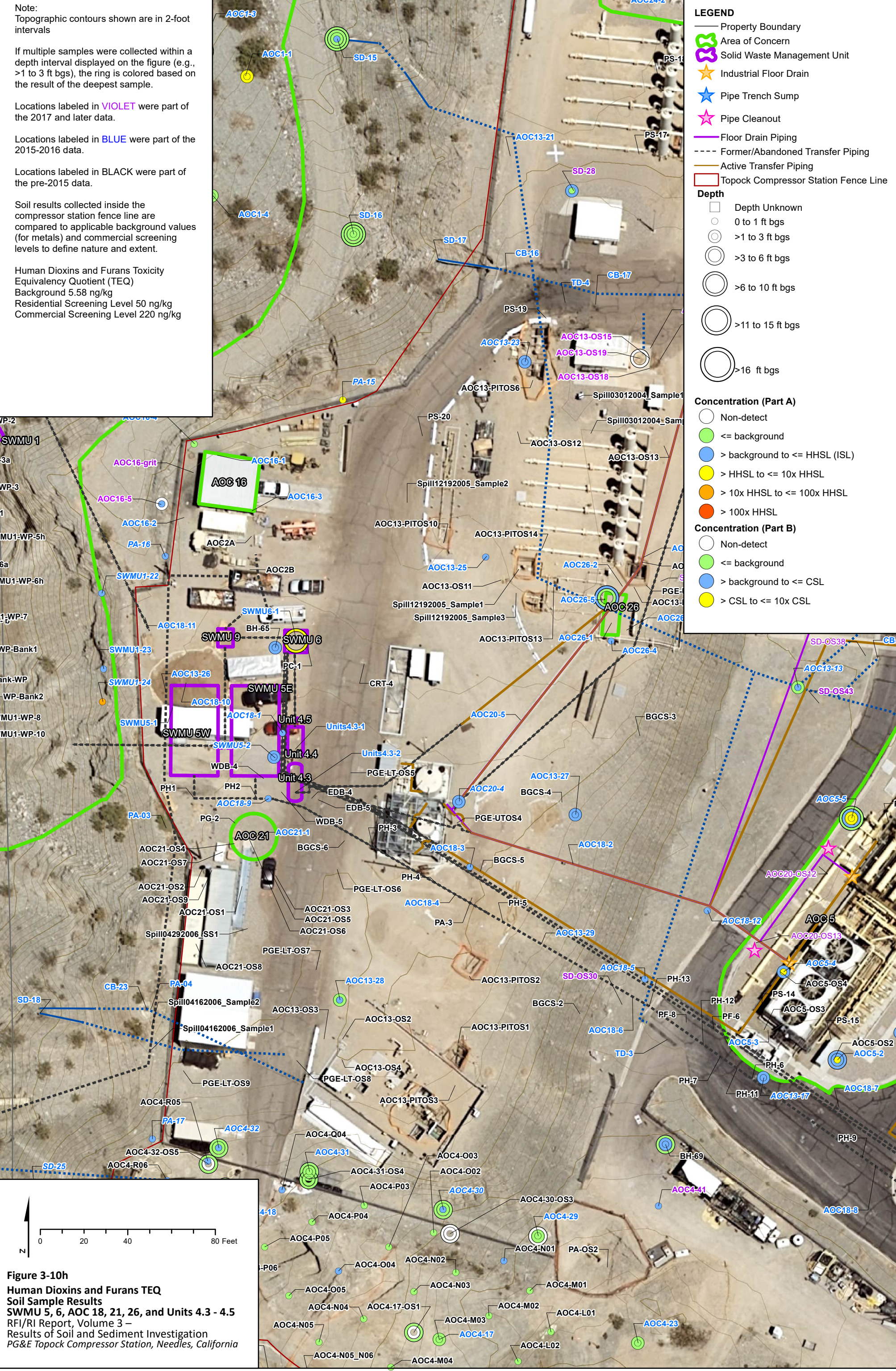
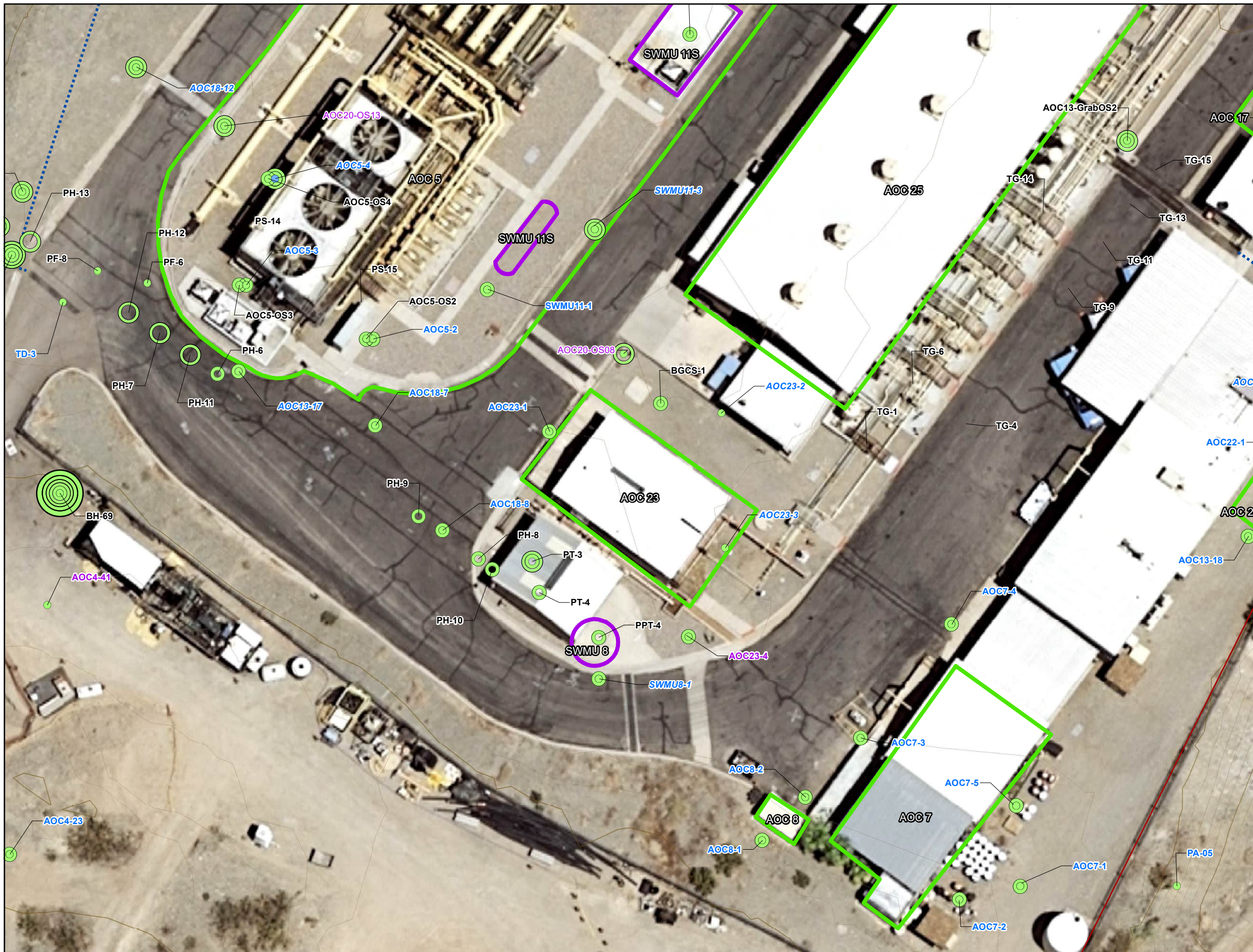


Figure 3-10h
Human Dioxins and Furans TEQ
Soil Sample Results
SWMU 5, 6, AOC 18, 21, 26, and Units 4.3 - 4.5
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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 (Part A)	Concentration (Part B)
Depth Unknown	Green circle	Green circle
0 to 1 ft bgs	Small green circle	Small green circle
>1 to 3 ft bgs	Medium green circle	Medium green circle
>3 to 6 ft bgs	Large green circle	Large blue circle
>6 to 10 ft bgs	Very large green circle	Very large blue circle
>11 to 15 ft bgs	Large concentric green circles	Large concentric blue circles
>16 ft bgs	Very large concentric green circles	Very large concentric blue circles

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 screening level is set at the background value.

0 12.5 25 50 Feet

Figure 3-11a
Arsenic
Soil Sample Results
SWMU 8 and AOC 7, 8, 23
 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 (Part A)	Concentration (Part B)
Depth Unknown	Green circle: ≤ background (ISL)	White circle: Non-detect
0 to 1 ft bgs	Light green circle: ≤ background	Blue circle: > background to ≤ CSL
>1 to 3 ft bgs	Light blue circle: ≤ background	Dark blue circle: > background to ≤ CSL
>3 to 6 ft bgs	Light purple circle: ≤ background	Dark purple circle: > background to ≤ CSL
>6 to 10 ft bgs	Light blue circle: ≤ background	Dark blue circle: > background to ≤ CSL
>11 to 15 ft bgs	Light purple circle: ≤ background	Dark purple circle: > background to ≤ CSL
>16 ft bgs	Light blue circle: ≤ background	Dark blue circle: > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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

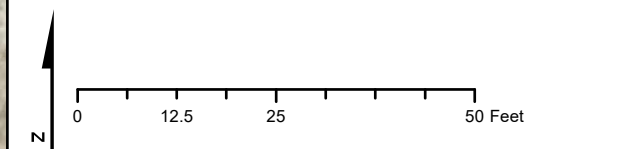


Figure 3-11b
Copper
Soil Sample Results
SWMU 8 and AOC 7, 8, 23
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- ≤ background (ISL)
- > ECV to ≤ 10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 screening level is set at the background value.

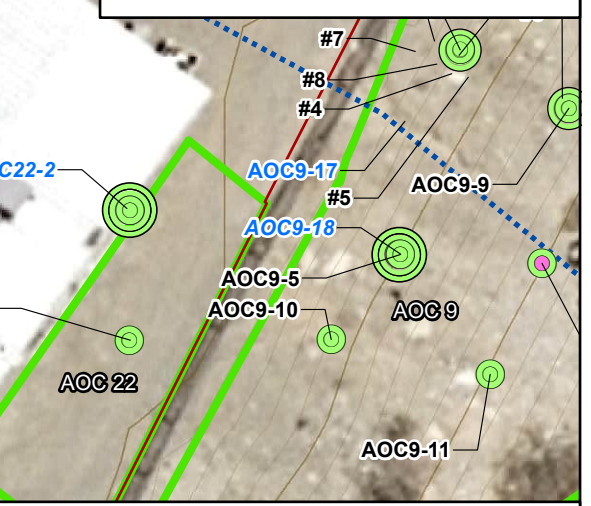


Figure 3-12a
Arsenic
Soil Sample Results
AOC 5
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL
- > CSL to <= 10x CSL
- > 10x CSL to <= 100x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

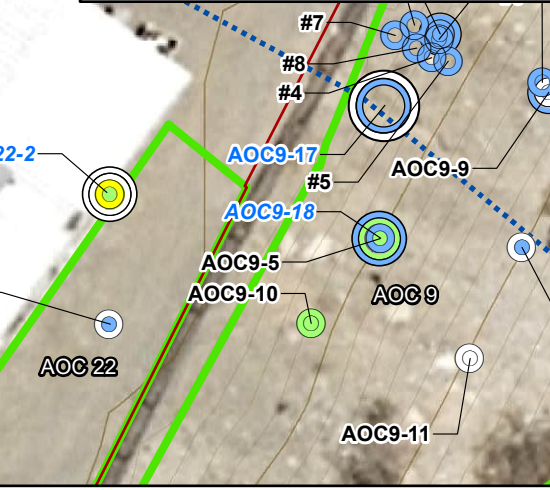


Figure 3-12b
 Hexavalent Chromium
 Soil Sample Results
 AOC 5
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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
Interim Screening Level 39.8 mg/kg
DTSC Requested Screening Levels 100 mg/kg and 1,000 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 3-12c
Total Chromium
Soil Sample Results
AOC 5
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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 3-12d
Copper
Soil Sample Results
AOC 5
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

- Depth Unknown
- 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 (Part A)

- ≤ background (ISL)
- > background to ≤ HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL
- > CSL to ≤ 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 3-12e
Lead
Soil Sample Results
AOC 5
 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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > ECV to <= 10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

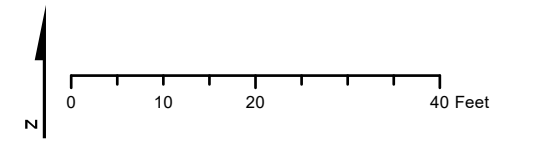
Locations labeled in **BLUE** were part of the 2015-2016 data.

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 3-12f
Molybdenum
Soil Sample Results
AOC 5
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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 3-12g
Zinc
Soil Sample Results
AOC 5
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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background
- > background to <= HHSL (ISL)
- > HHSL to <= 10x HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL
- > CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 3-12h
Benzo(a)Pyrene Equivalent
Soil Sample Results
AOC 5
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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV

Concentration (Part B)

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

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

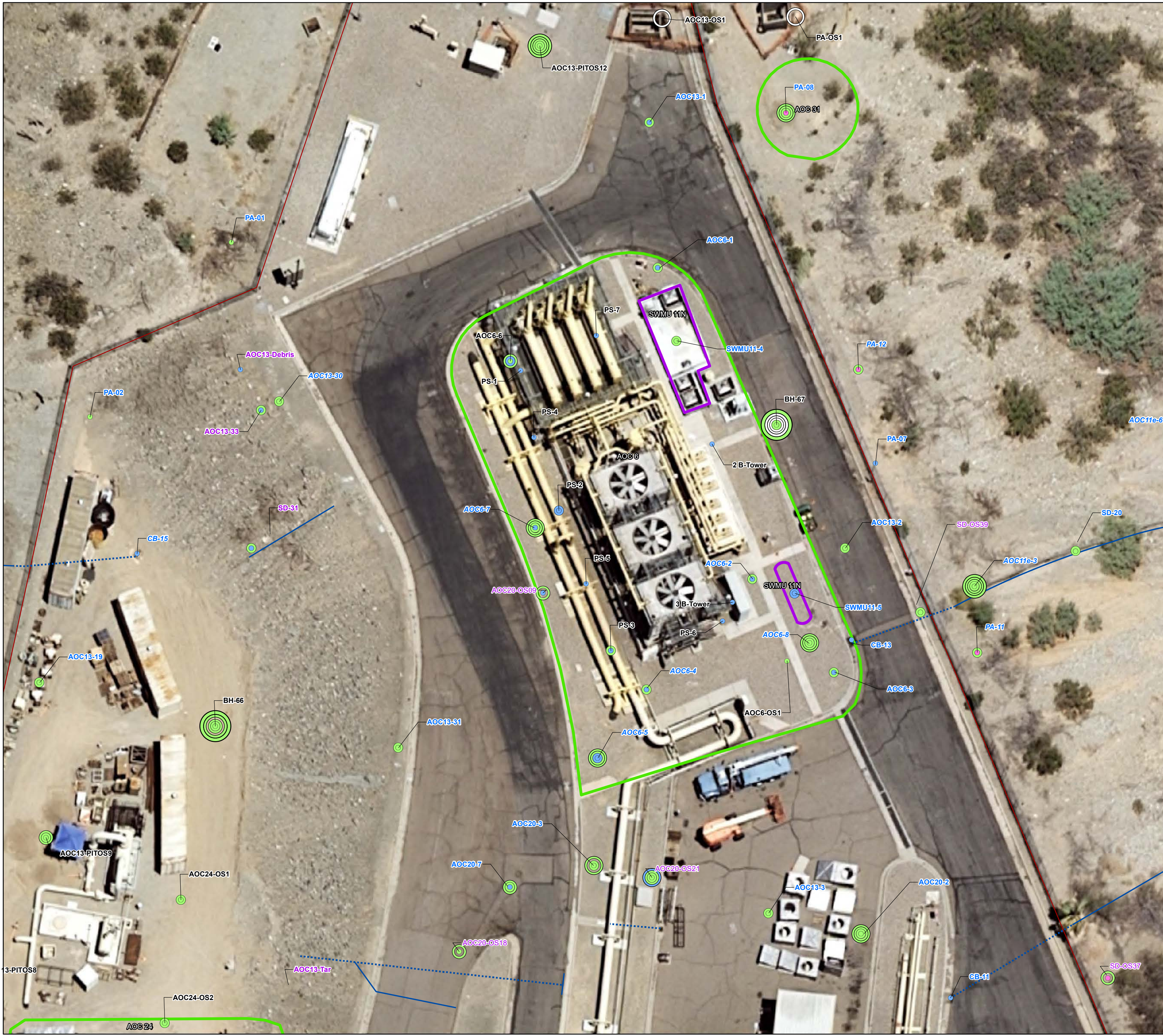
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-13b
Hexavalent Chromium
Soil Sample Results
AOC 6
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
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV

Concentration (Part B)

- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

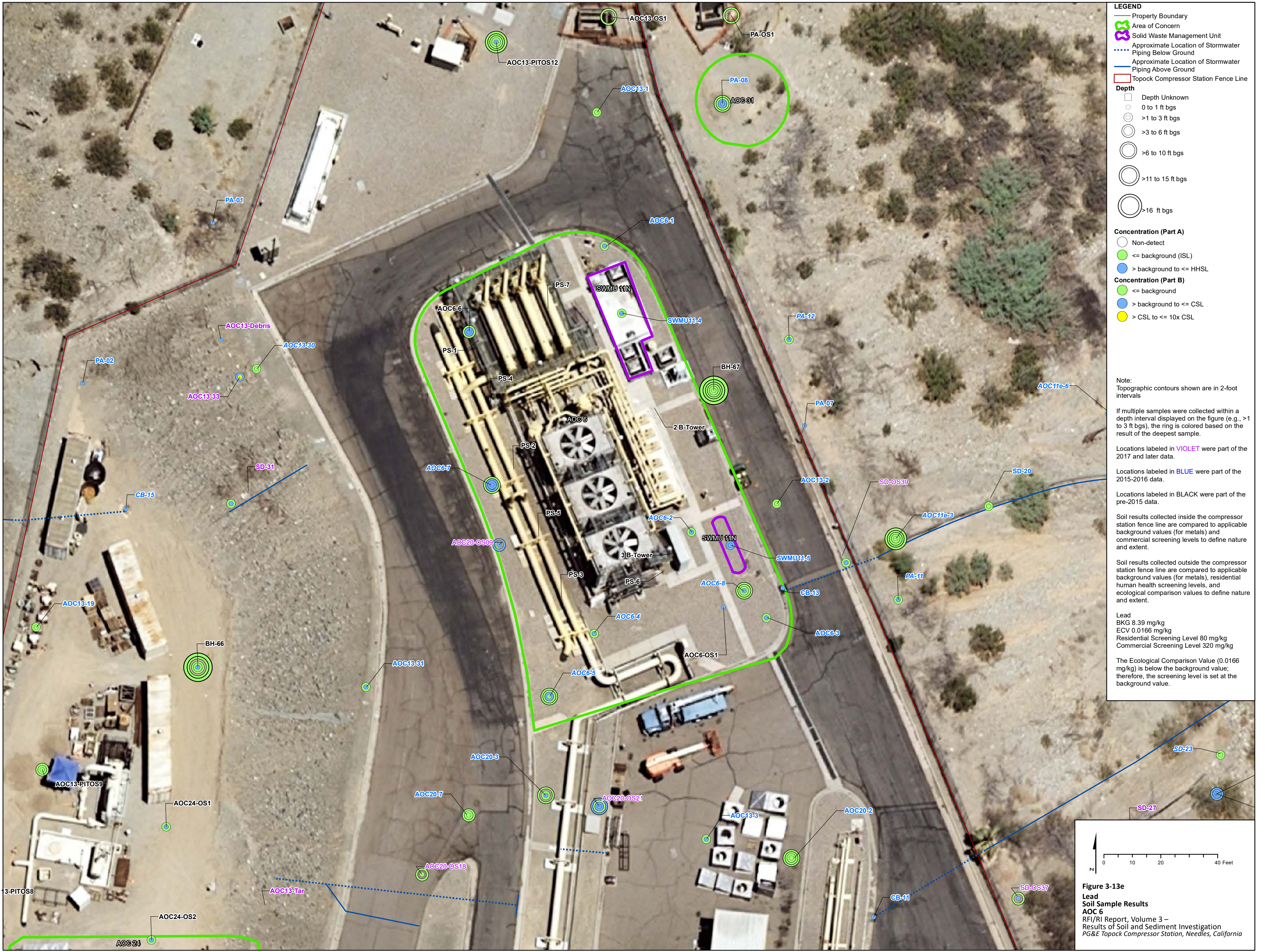
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-13d
Copper
Soil Sample Results
AOC 6
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topcock 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

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- <= background
- > background to <= CSL
- > CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-13e
Lead
Soil Sample Results
AOC 6
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
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV

Concentration (Part B)

- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

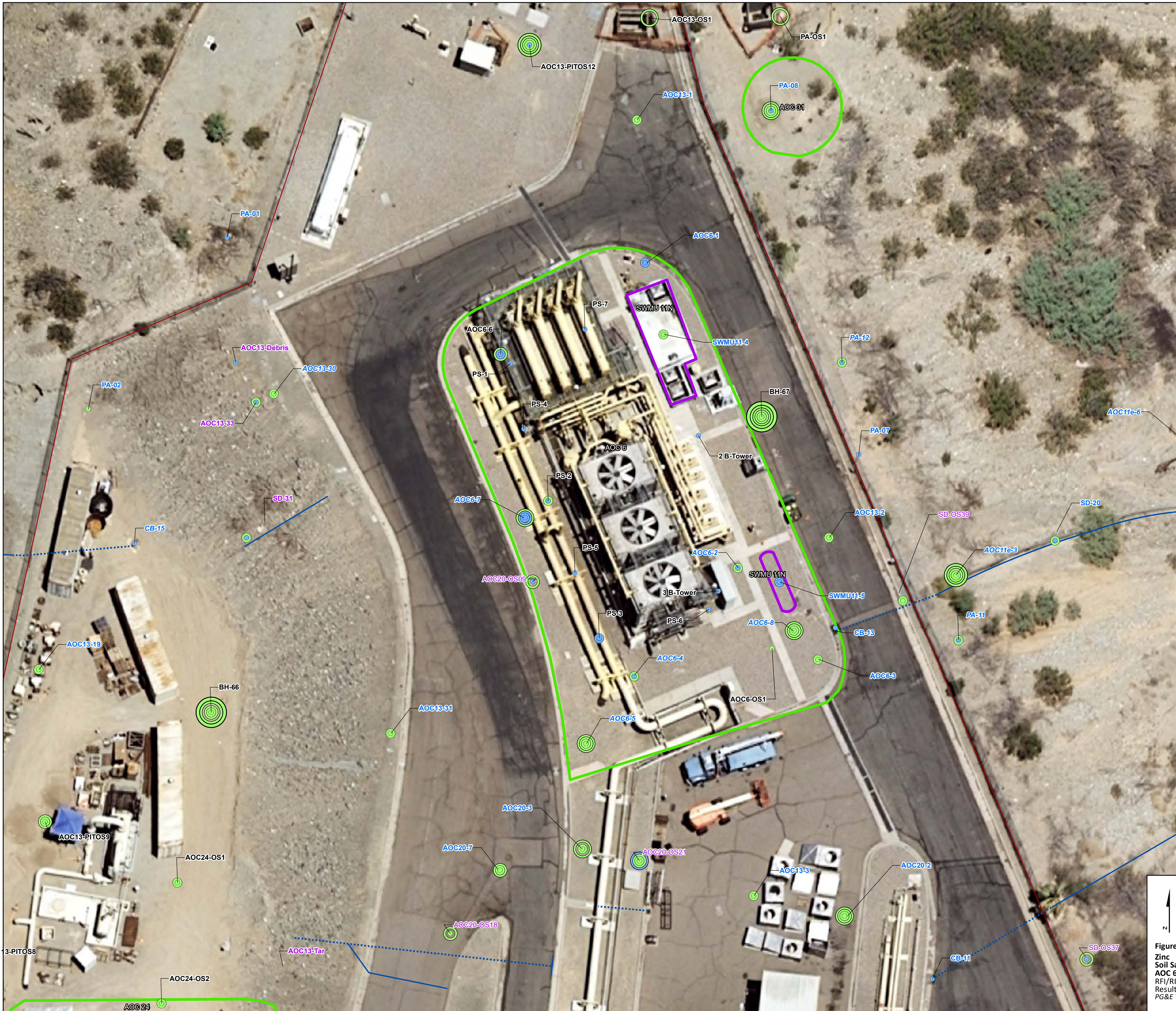
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-13f
Molybdenum
Soil Sample Results
AOC 6
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topcock 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

- Depth Unknown
- 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 (Part A)

- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

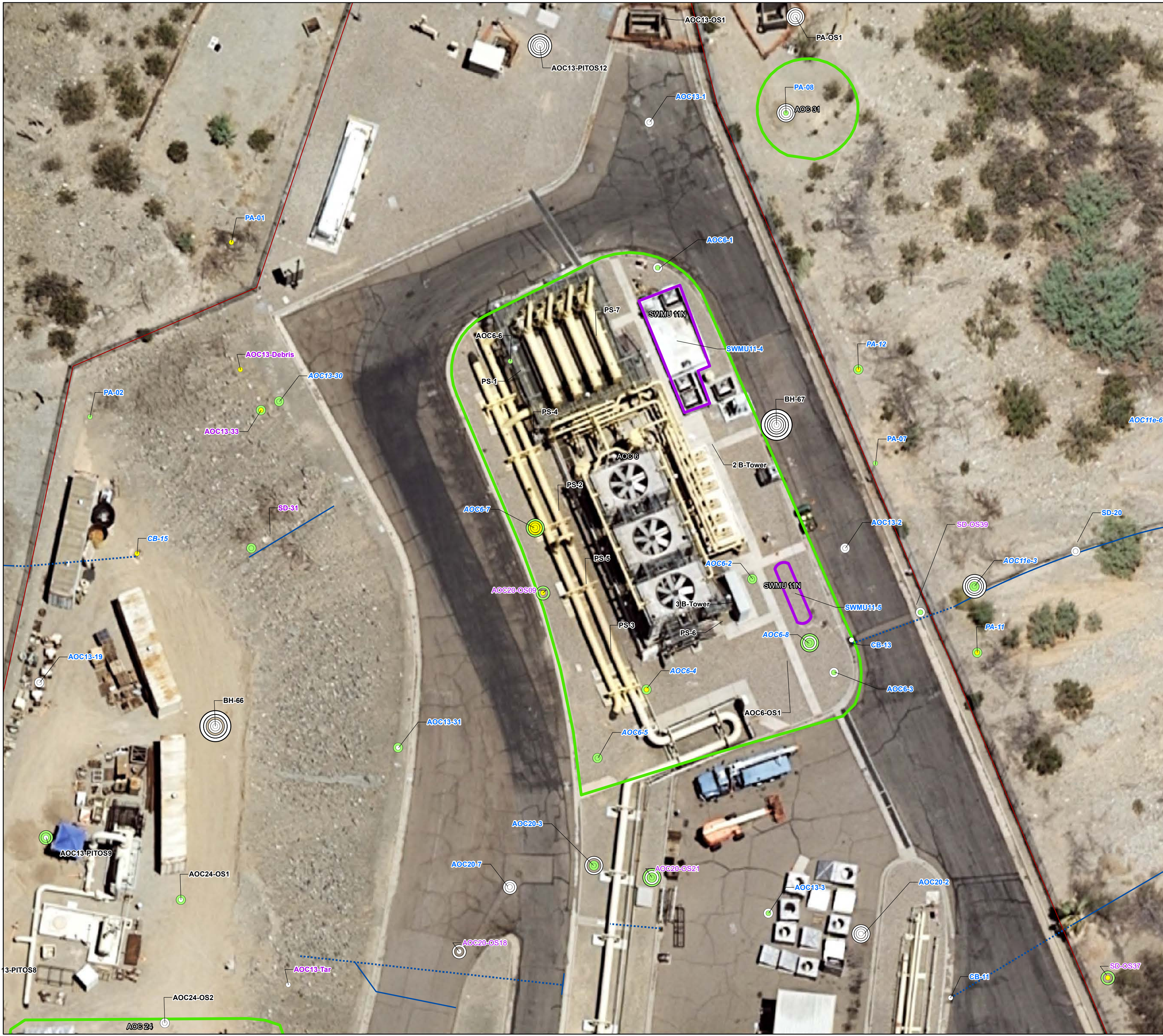
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-13g
Zinc
Soil Sample Results
AOC 6
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

- Depth Unknown
- 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 (Part A)

- Non-detect
- ≤ HHSL (ISL)
- > HHSL to ≤ 10x HHSL

Concentration (Part B)

- Non-detect
- ≤ CSL
- > CSL to ≤ 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

0 10 20 40 Feet

Figure 3-13i
Aroclor 1254
Soil Sample Results
AOC 6
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**
- Depth Unknown
 - 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 (Part A)**
- ≤ background
 - > background to ≤ HHSL (ISL)
 - > HHSL to ≤ 10x HHSL
 - > 10x HHSL to ≤ 100x HHSL

- Concentration (Part B)**
- Non-detect
 - ≤ background
 - > background to ≤ CSL
 - > CSL to ≤ 10x CSL
 - > 100x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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

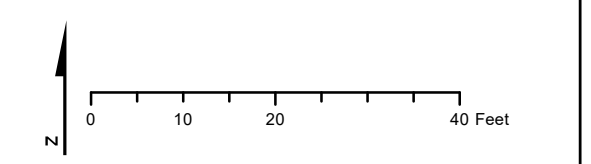


Figure 3-13j
Human Dioxins and Furans TEQ
Soil Sample Results
AOC 6
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background (ISL)
- > ECV to <= 10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

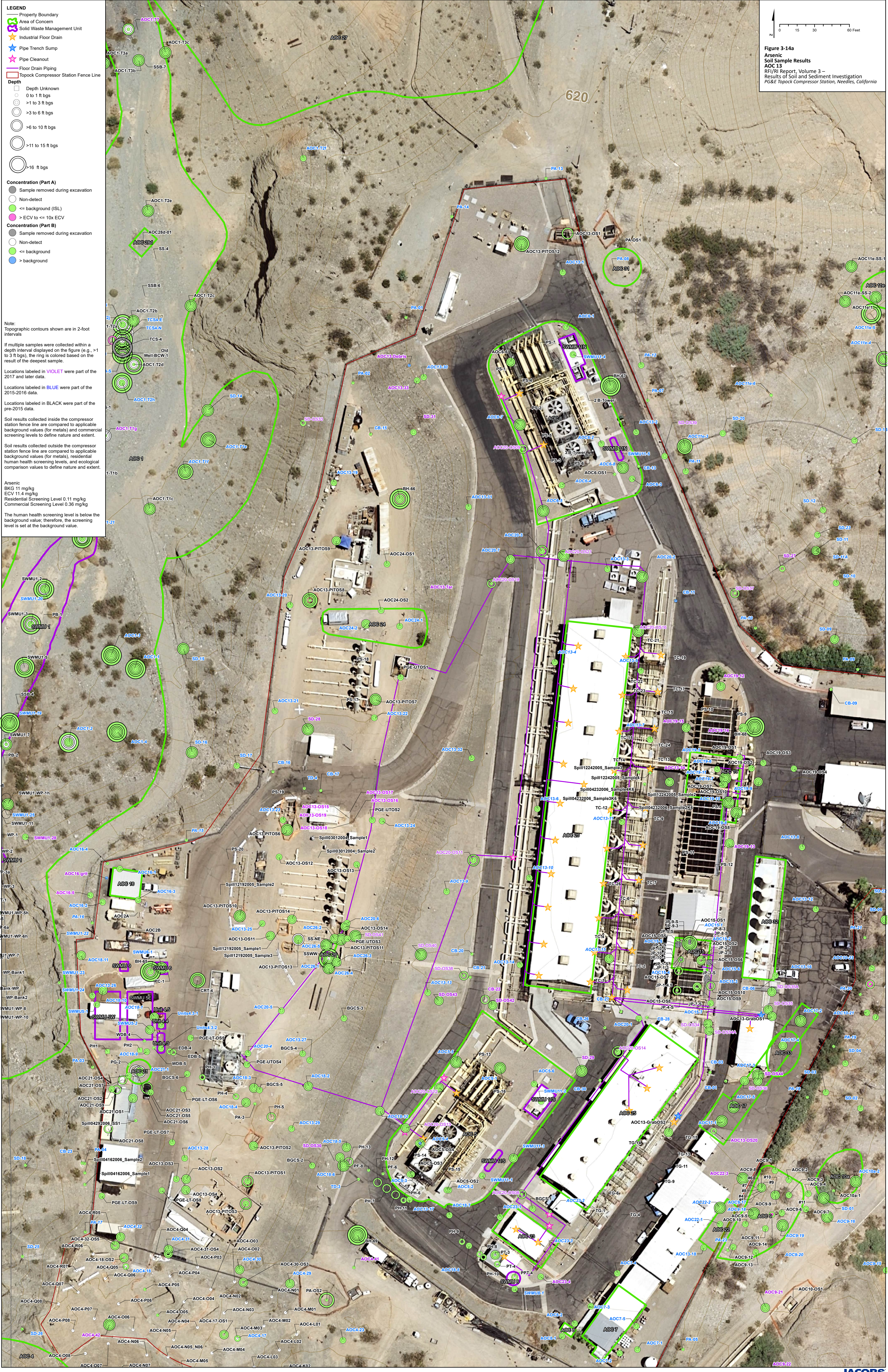
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 screening level is set at the background value.

Figure 3-14a
Arsenic
Soil Sample Results
AOC 13
RF/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topcock Compressor Station, Needles, California



LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- ≤ background (ISL)
- > background to ≤ HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

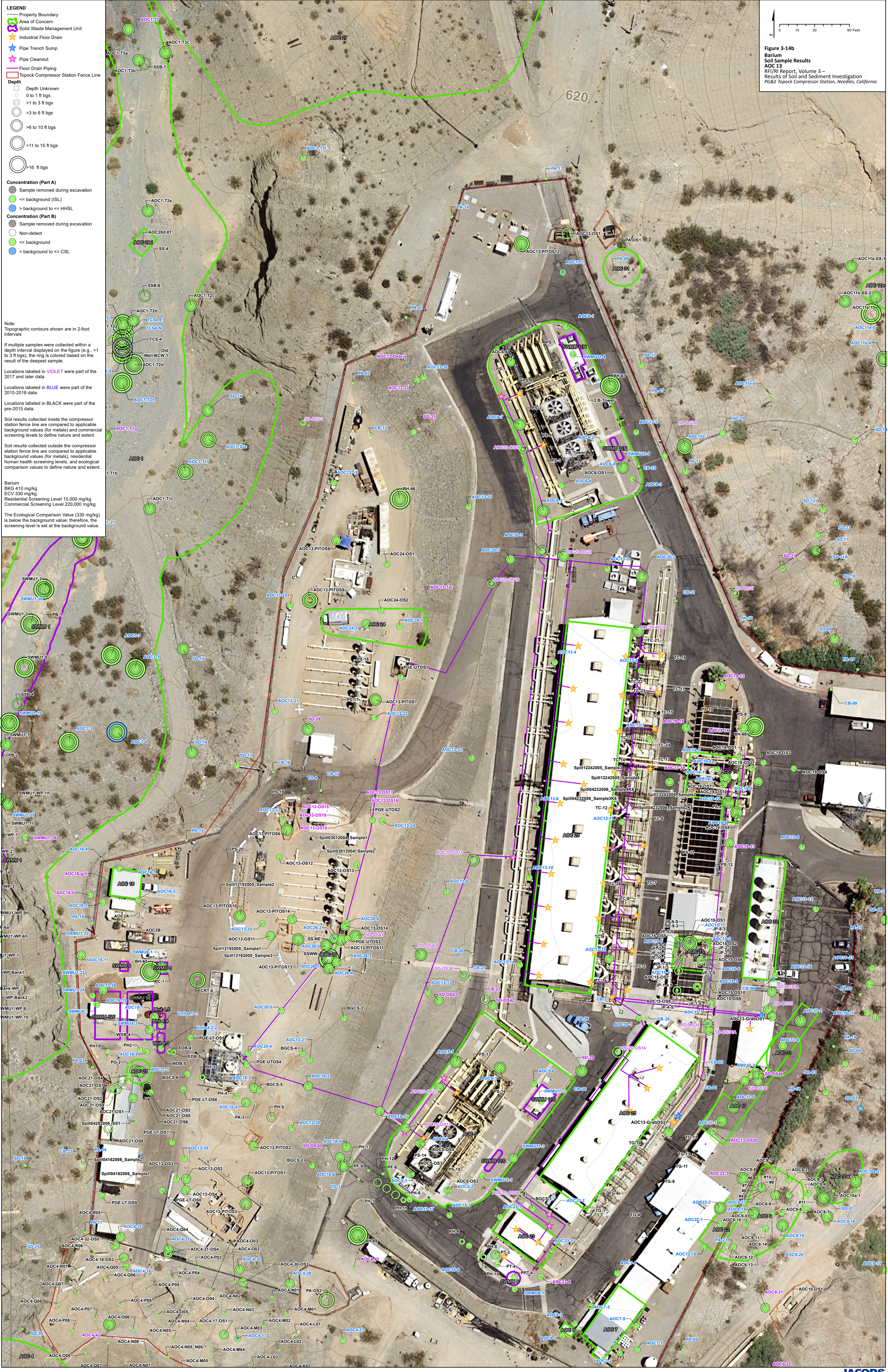
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-14b
Barium
Soil Sample Results
AOC 13
RF/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
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background (ISL)
- > background to <= HHSL
- > HHSL to <= 10x HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL
- > CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

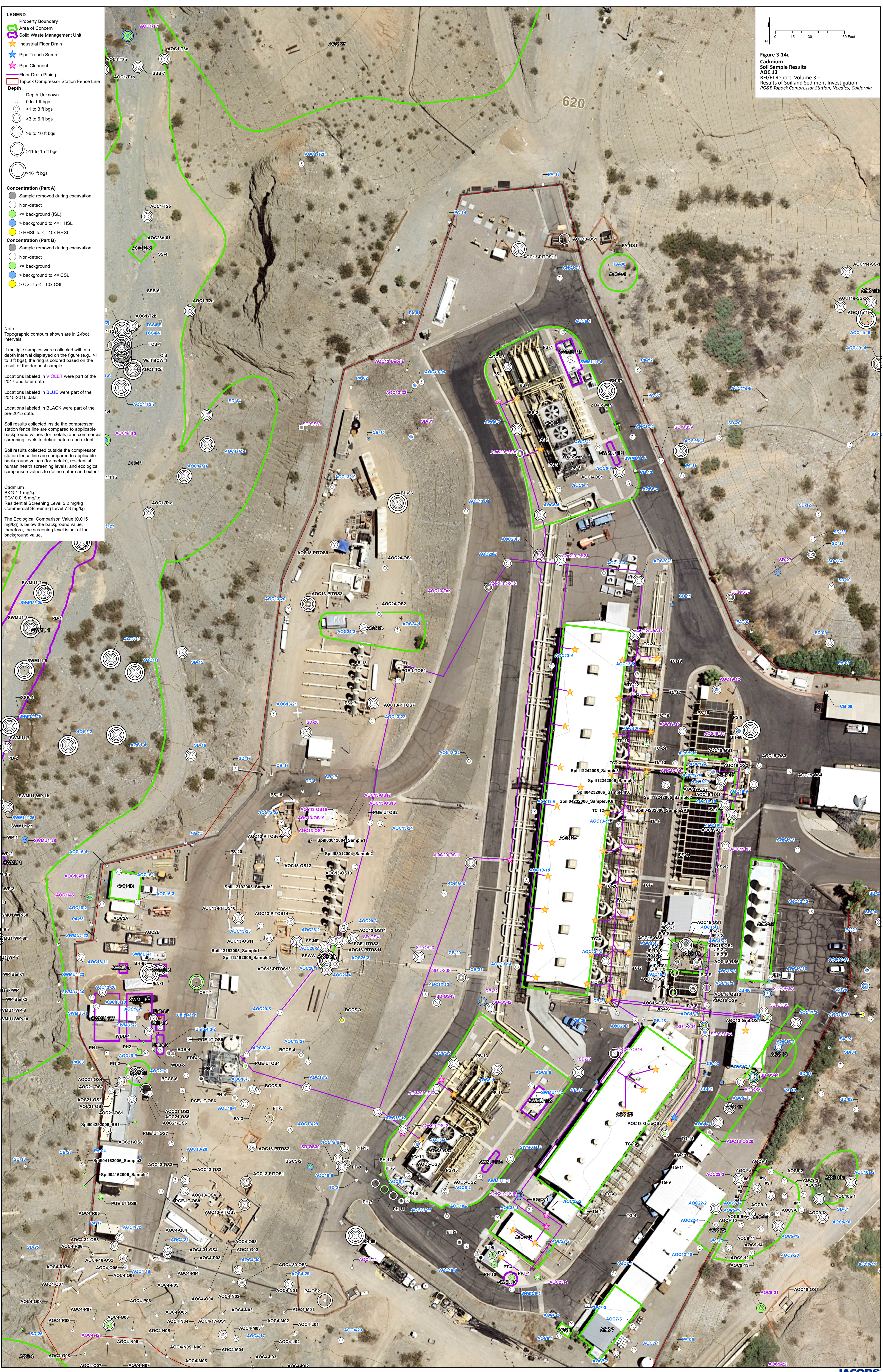
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-14c
Cadmium
Soil Sample Results
AOC 13
RF/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topcock Compressor Station, Needles, California



LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background (ISL)
- > background to <= ECV
- >10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL
- > CSL to <= 10x CSL
- > 10x CSL to <= 100x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

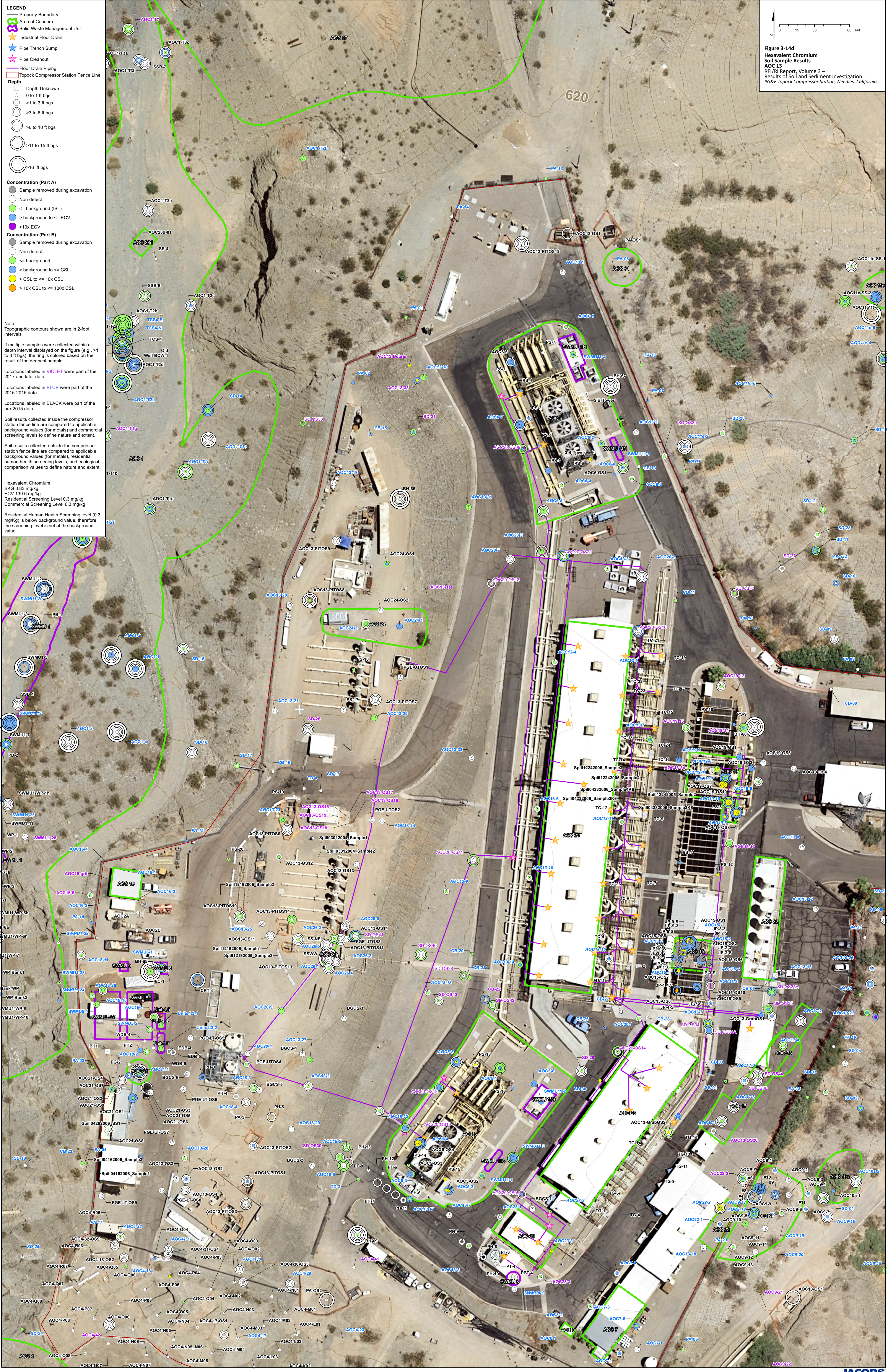
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

Hexavalent Chromium
BKG 0.3 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 3-14d
Hexavalent Chromium
Soil Sample Results
AOC 13
RF/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topcock Compressor Station, Needles, California



LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- <= background (ISL)
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg
- > DTSC SL 1,000 mg/kg

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- >background to <= DTSC SL 100 mg/kg
- > DTSC SL 100 mg/kg
- > DTSC SL 1,000 mg/kg

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

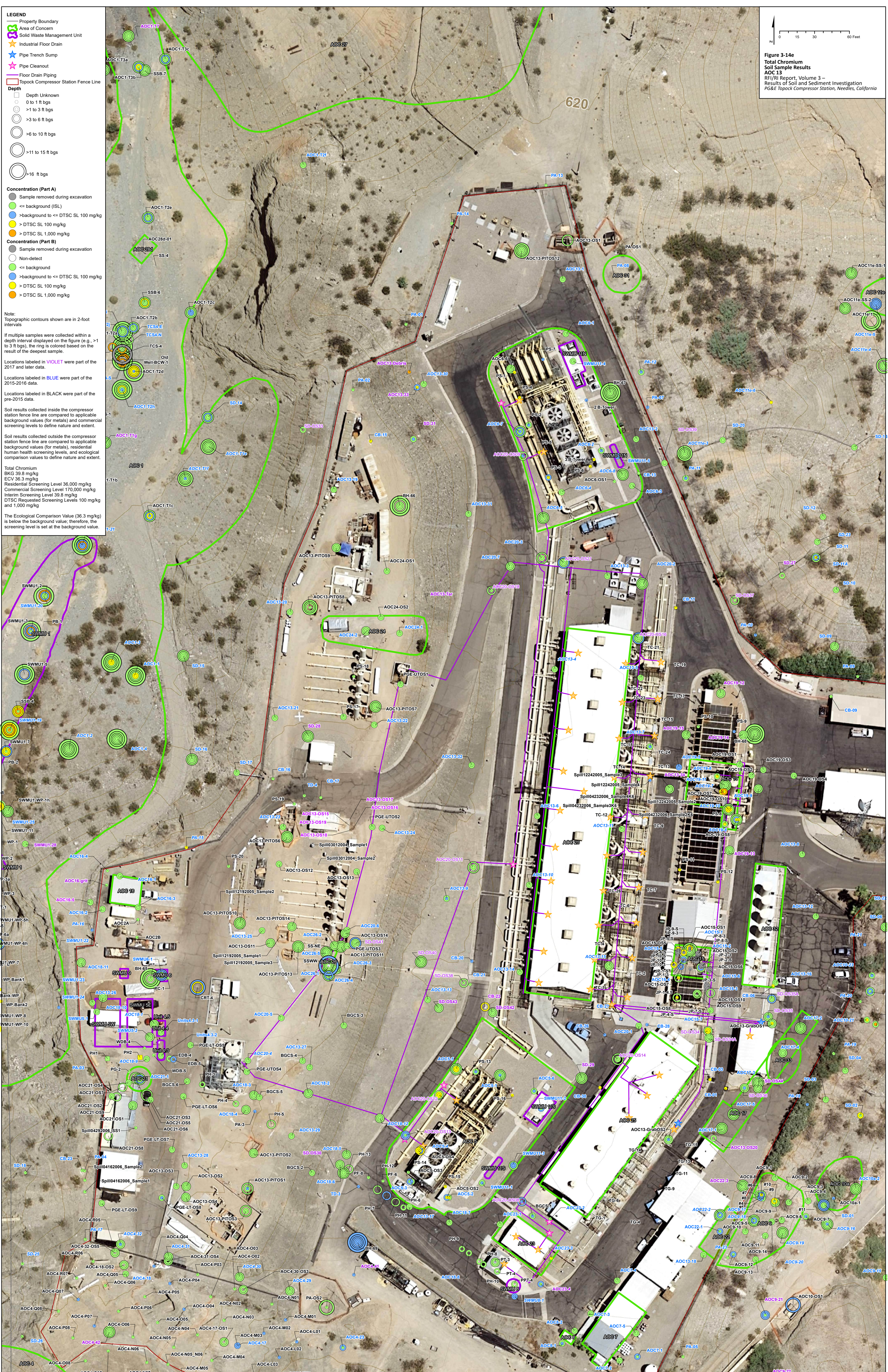
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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
Interim Screening Level 39.8 mg/kg
DTSC Requested Screening Levels 100 mg/kg and 1,000 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 3-14e
Total Chromium
Soil Sample Results
AOC 13
RF/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topcock Compressor Station, Needles, California



LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background (ISL)
- > ECV to <= 10x ECV
- >10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

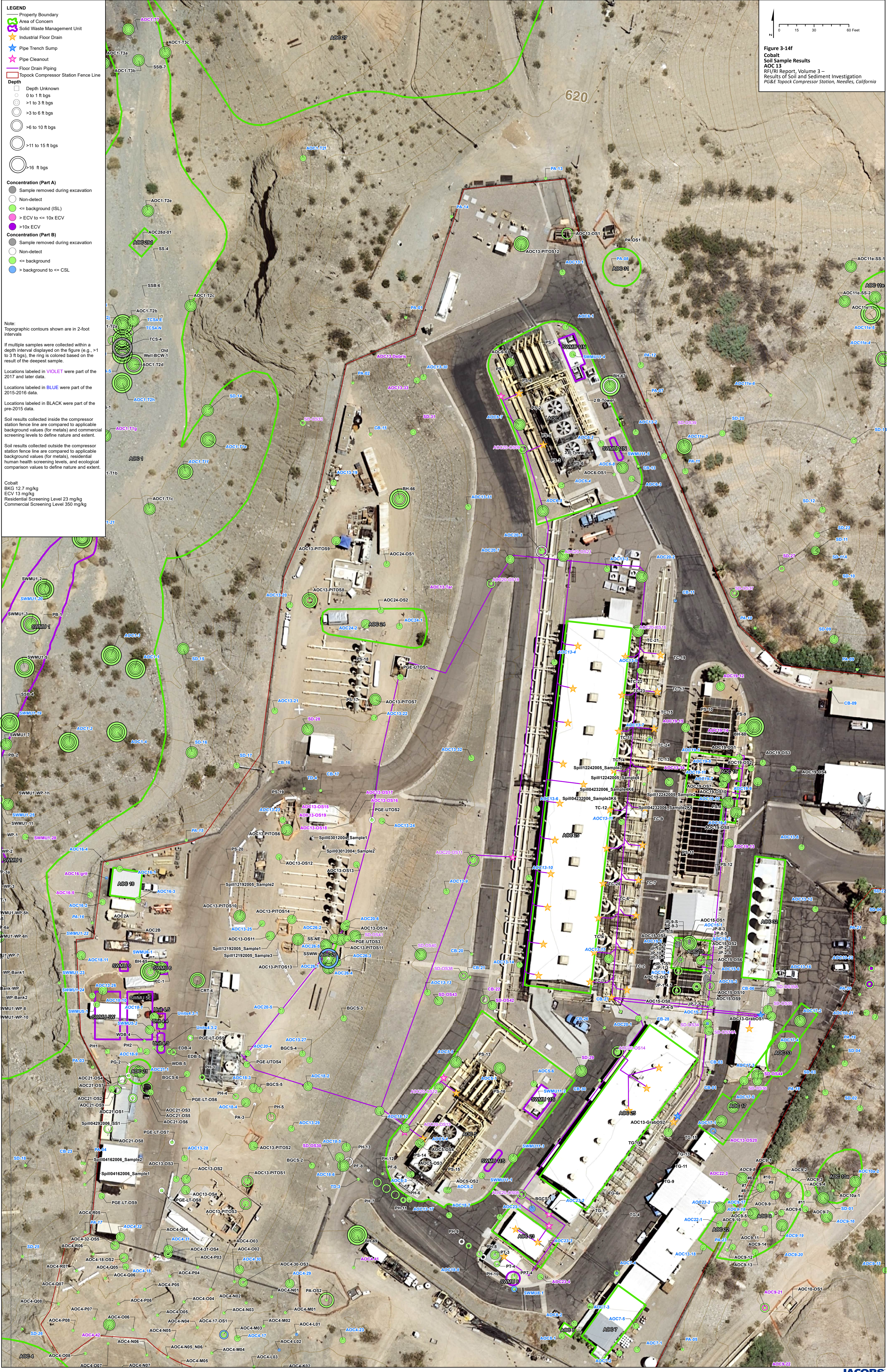
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-14f
Cobalt
Soil Sample Results
 AOC 13
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topcock Compressor Station, Needles, California



LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV
- >10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

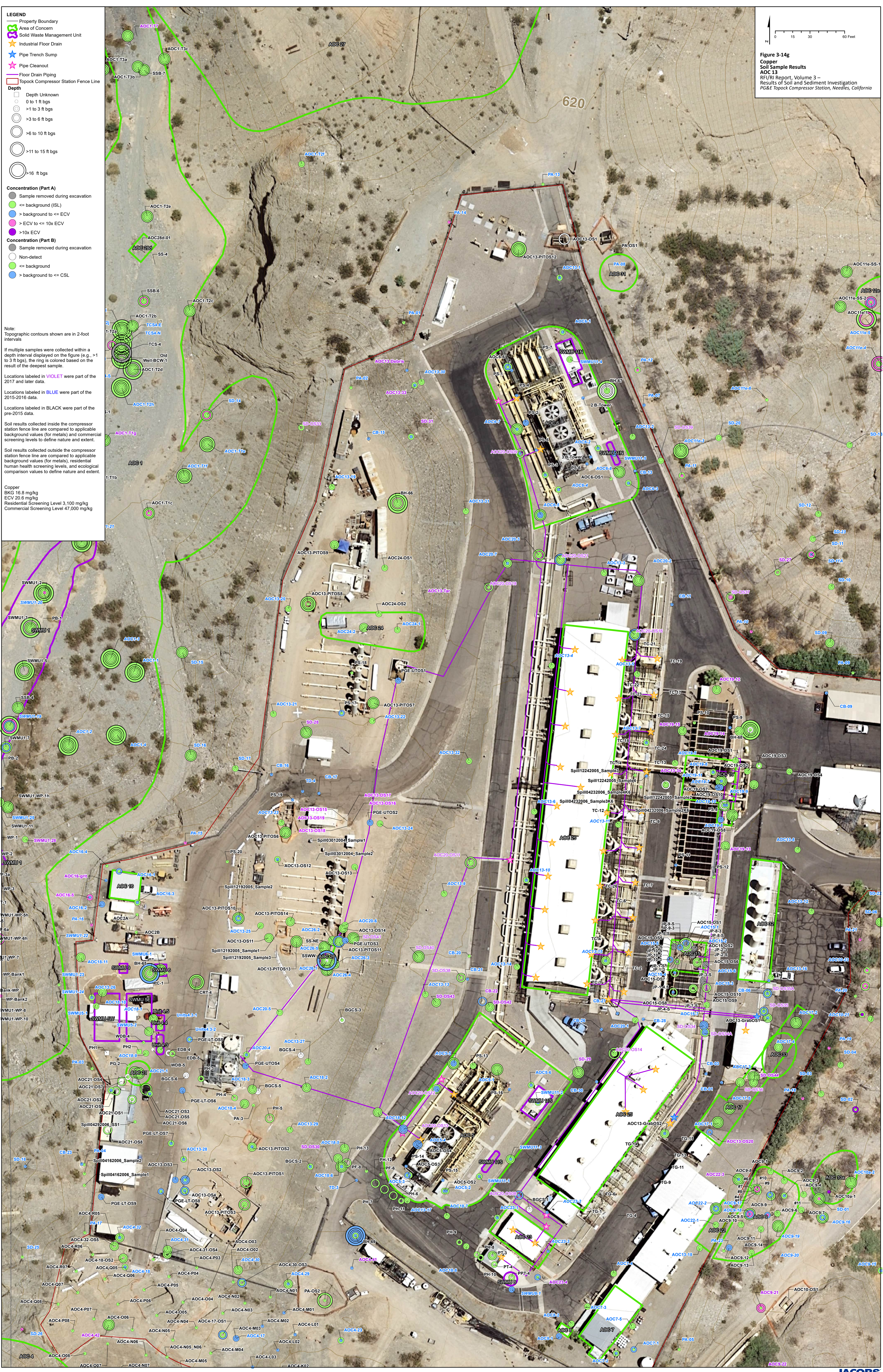
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

Figure 3-14g
Copper
Soil Sample Results
AOC 13
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topcock Compressor Station, Needles, California



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LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background (ISL)
- > background to <= HHSL
- > HHSL to <= 10x HHSL
- > 10x HHSL to <= 100x HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL
- > CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

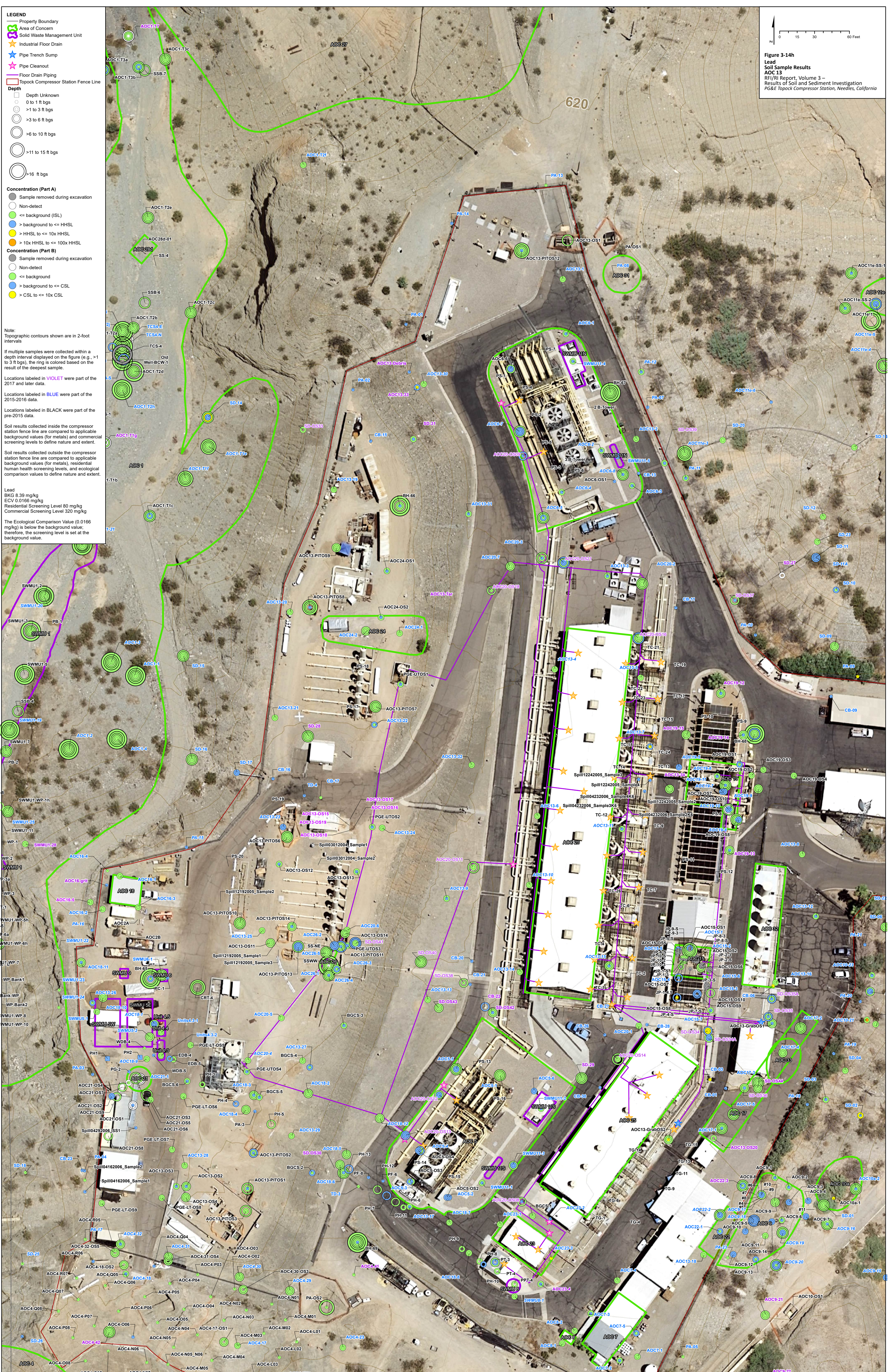
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-14h
Lead
Soil Sample Results
AOC 13
RF/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topcock Compressor Station, Needles, California



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LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background (ISL)
- > background to <= ECV
- > ECV to <= 10x ECV

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL

Note: Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

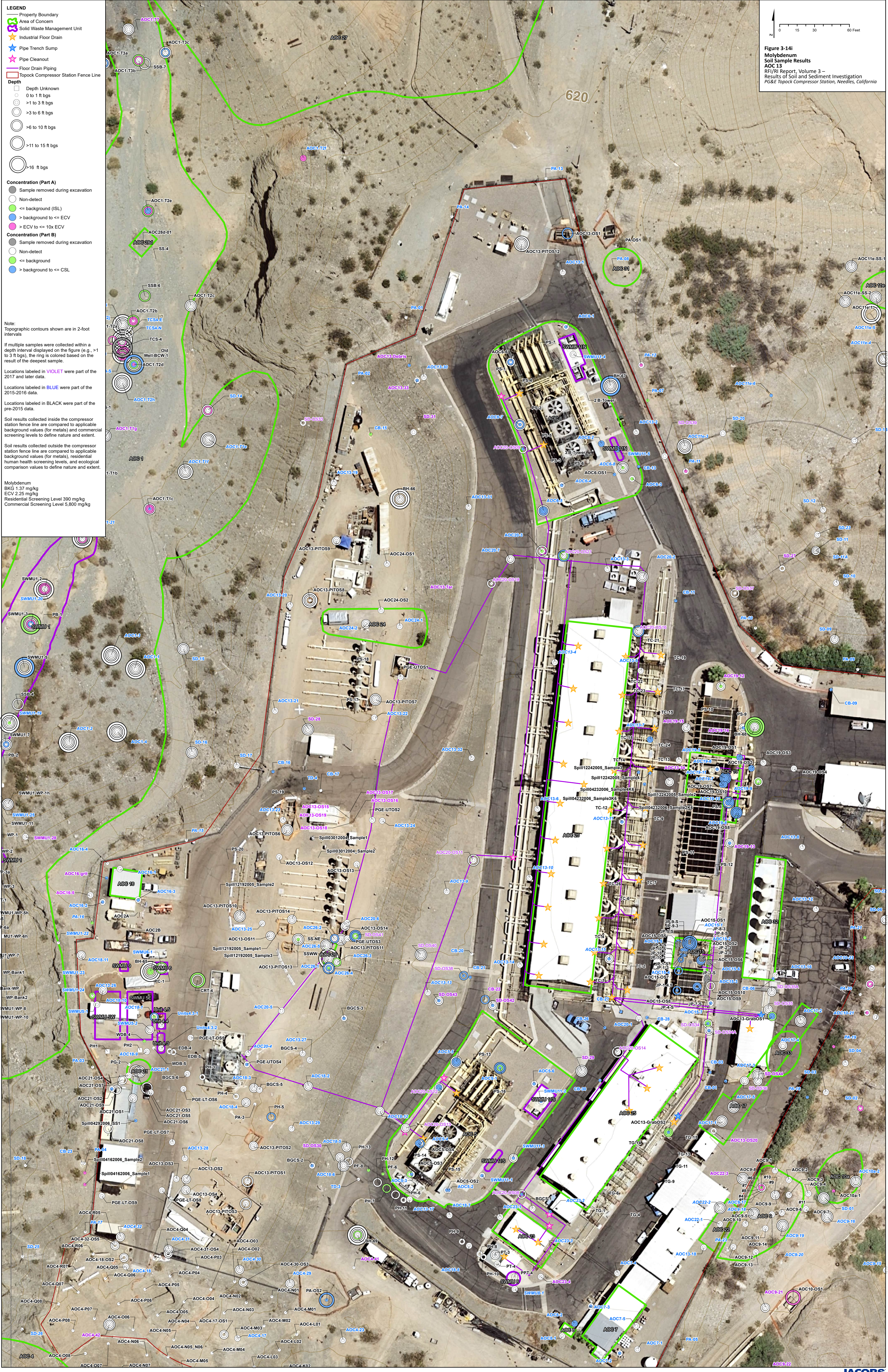
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-14i
Molybdenum
Soil Sample Results
 AOC 13
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topcock Compressor Station, Needles, California



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LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- ≤ background (ISL)
- > background to ≤ HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

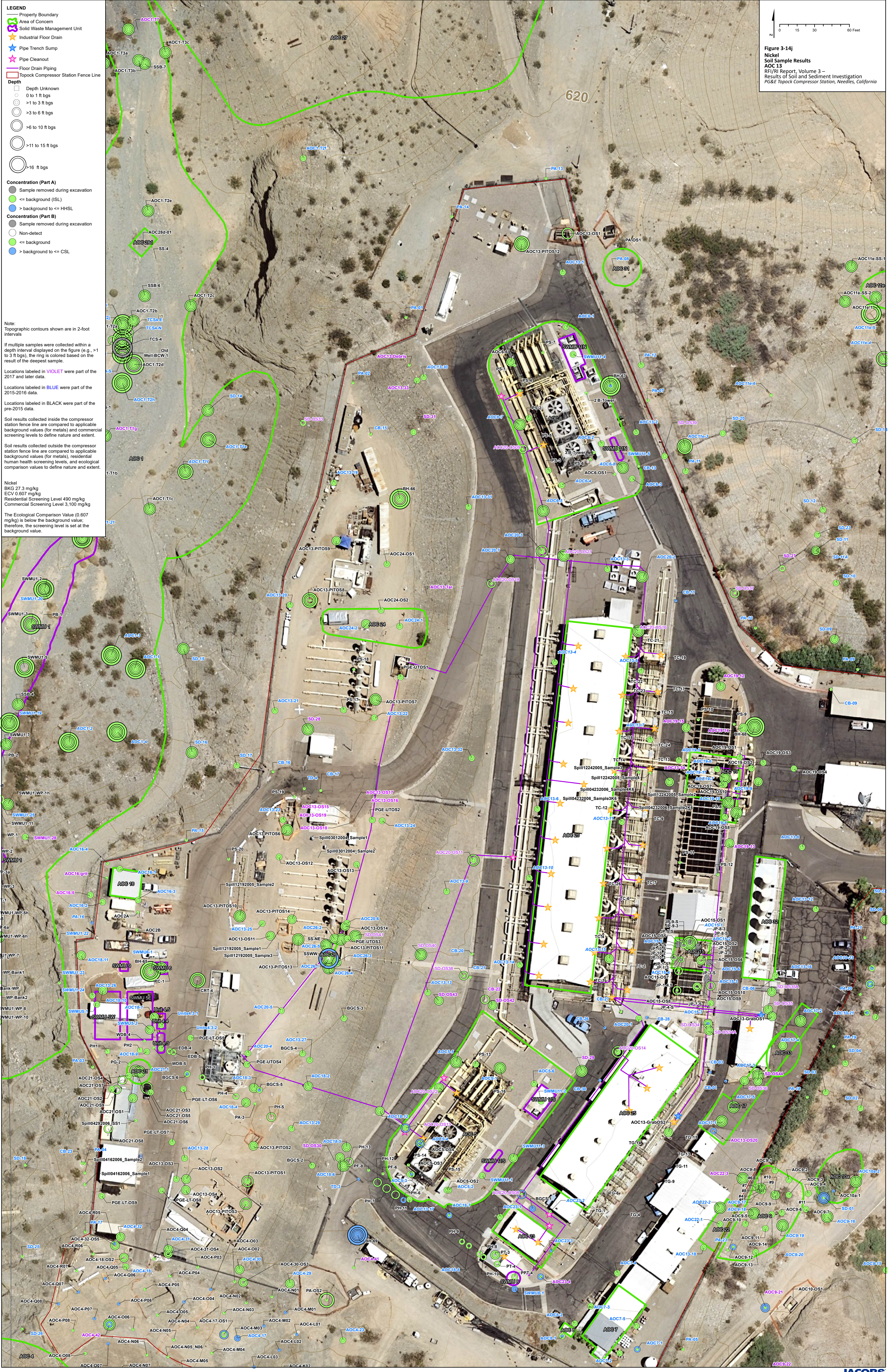
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-14j
Nickel
Soil Sample Results
AOC 13
RF/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
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background (ISL)
- > background to <= HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

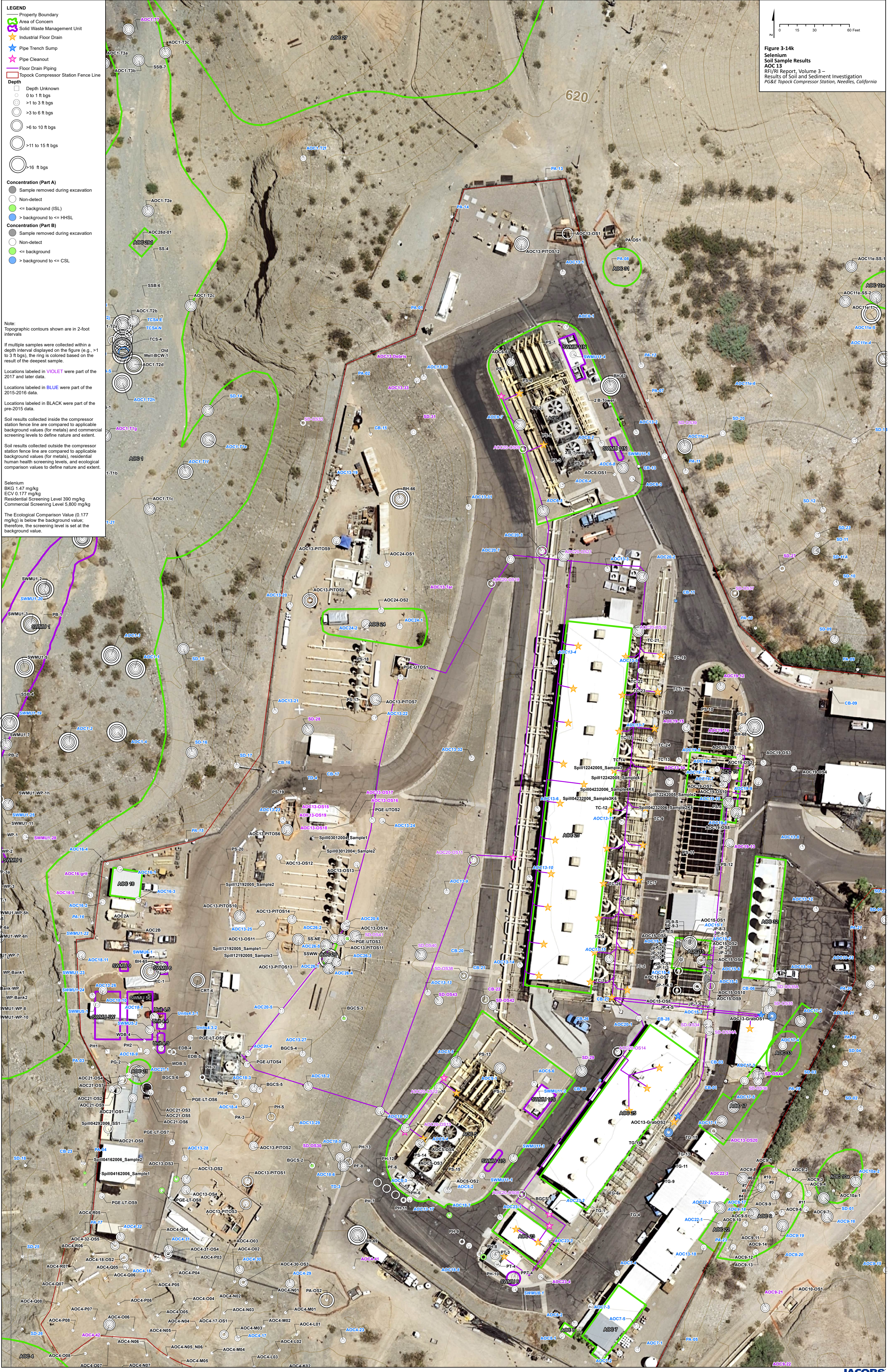
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

Selenium
 BKG 1.47 mg/kg
 ECY 0.177 mg/kg
 Residential Screening Level 390 mg/kg
 Commercial Screening Level 5,800 mg/kg
 The Ecological Comparison Value (0.177 mg/kg) is below the background value; therefore, the screening level is set at the background value.

Figure 3-14k
Selenium
Soil Sample Results
AOC 13
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topcock Compressor Station, Needles, California



LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- ≤ background (ISL)
- > background to ≤ HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

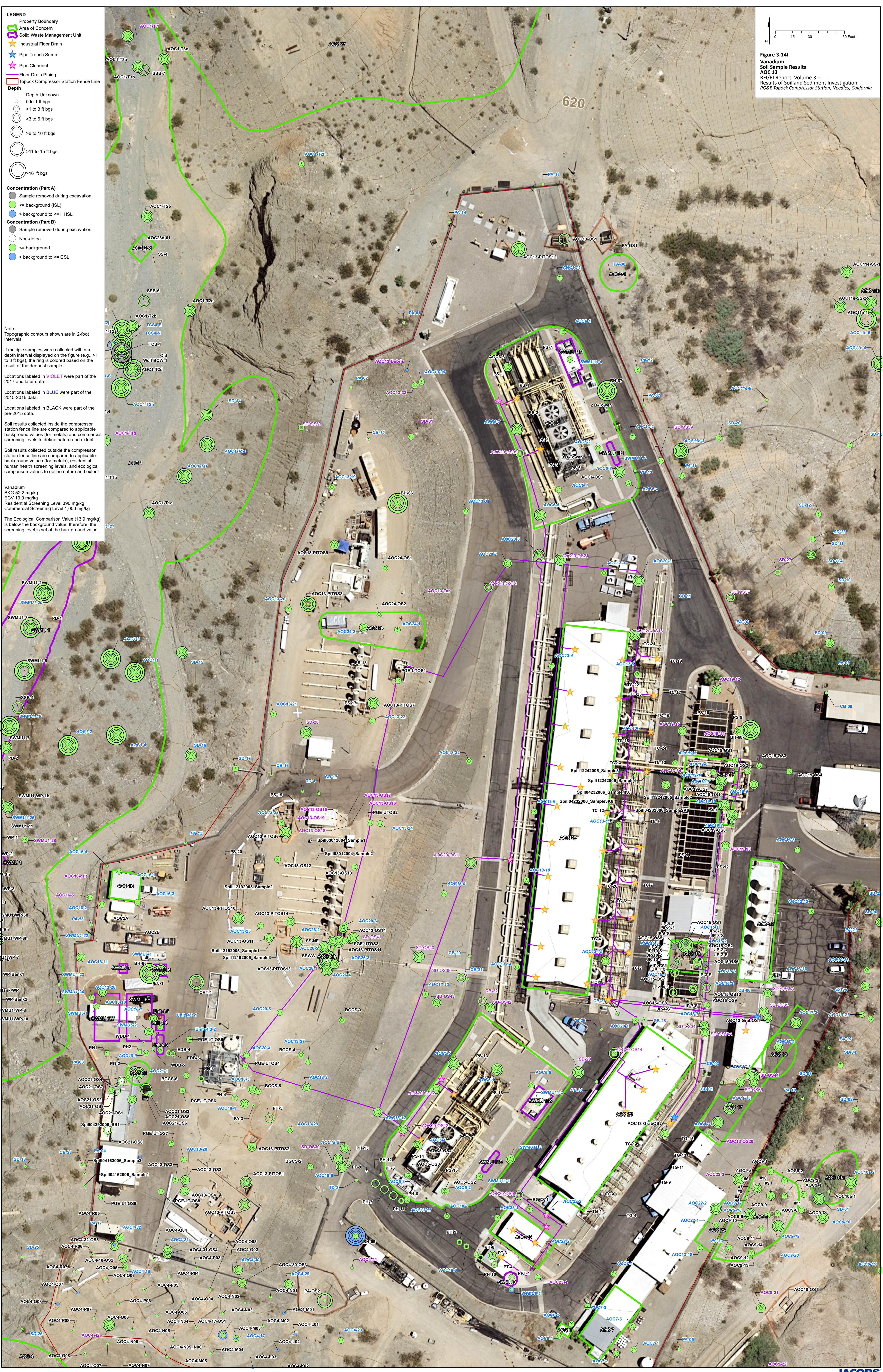
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values 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 3-141
Vanadium
Soil Sample Results
AOC 13
RF/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
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- ≤ background (ISL)
- > background to ≤ HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- ≤ background
- > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

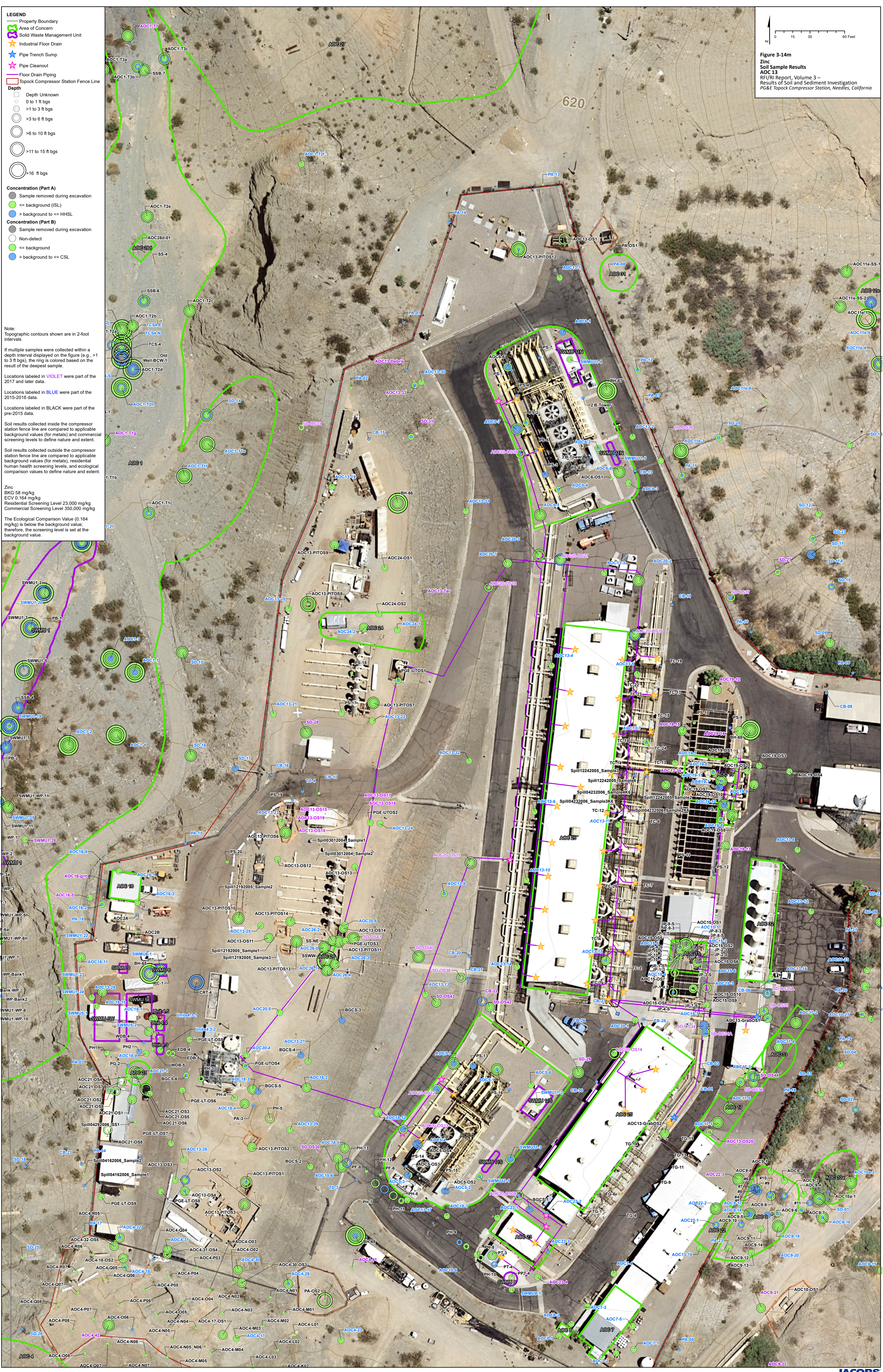
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

Zinc
 BKG 58 mg/kg
 ECY 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 3-14m
Zinc
Soil Sample Results
 AOC 13
 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
- Industrial Floor Drain
- ★ Pipe Trench Sump
- ★ Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= HHSL (ISL)
- > HHSL to <= 10x HHSL
- > 10x HHSL to <= 100x HHSL

Concentration (Part B)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= CSL
- > CSL to <= 10x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

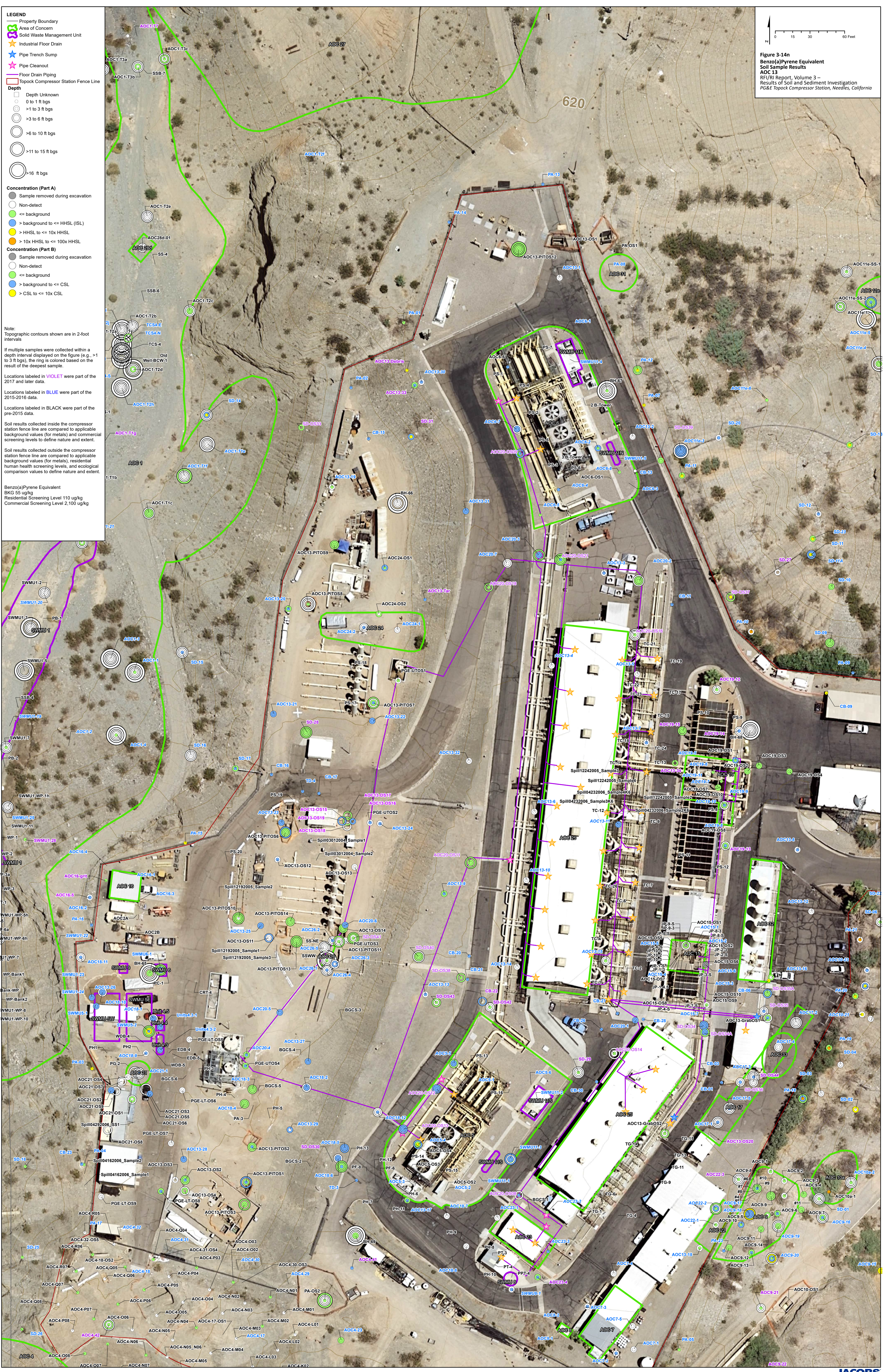
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

Figure 3-14n
Benzo(a)Pyrene Equivalent
Soil Sample Results
AOC 13
RF/RI Report, Volume 3 –
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PG&E Topcock Compressor Station, Needles, California



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LEGEND

- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Industrial Floor Drain
- Pipe Trench Sump
- Pipe Cleanout
- Floor Drain Piping
- Topcock Compressor Station Fence Line

Depth

- Depth Unknown
- 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 (Part A)

- Sample removed during excavation
- Non-detect
- <= background
- > background to <= HHSL (ISL)
- > HHSL to <= 10x HHSL
- > 10x HHSL to <= 100x HHSL
- > 100x HHSL

Concentration (Part B)

- Non-detect
- <= background
- > background to <= CSL
- > CSL to <= 10x CSL
- > 100x CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

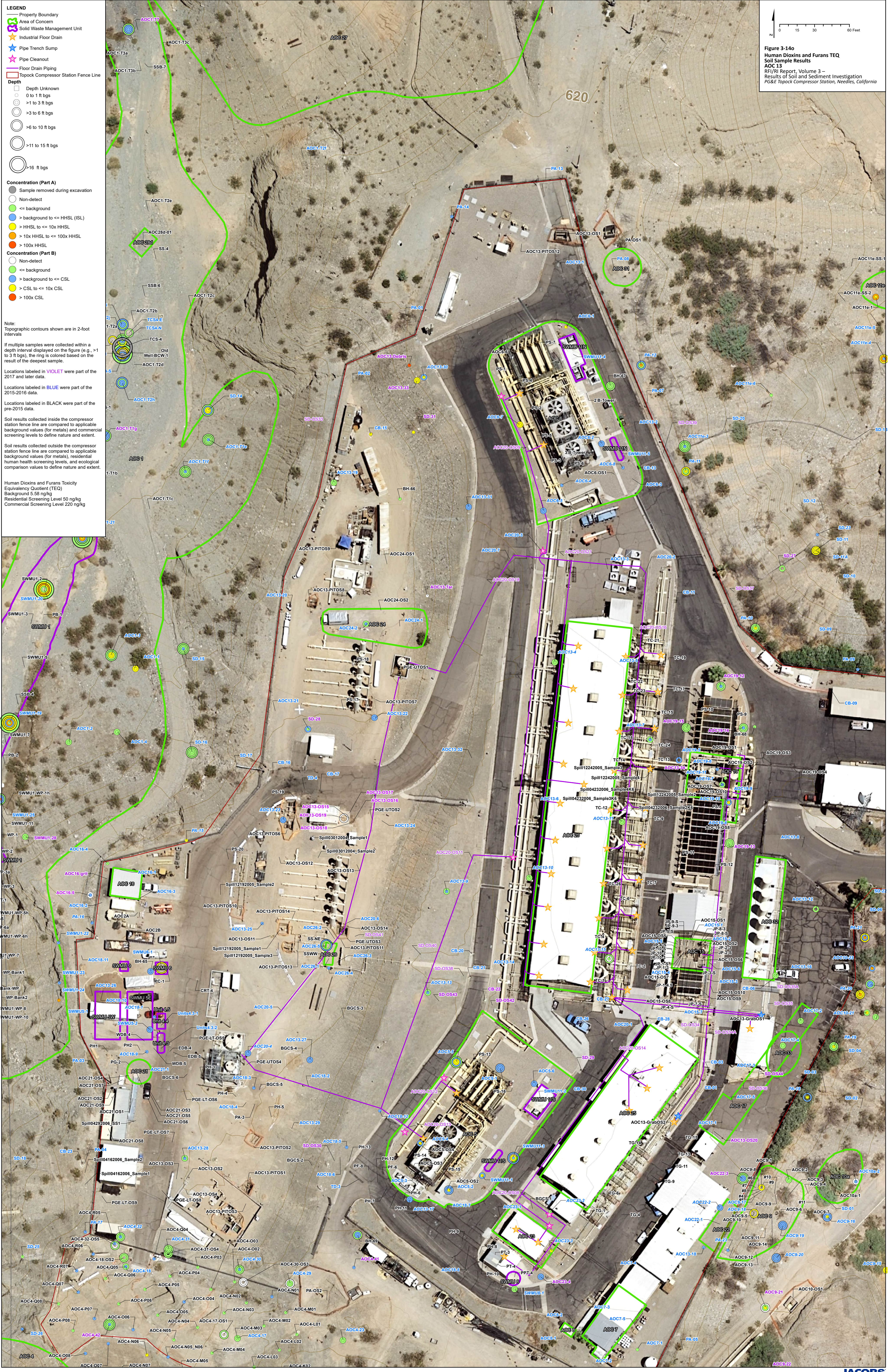
Locations labeled in **BLACK** were part of the pre-2015 data.

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.

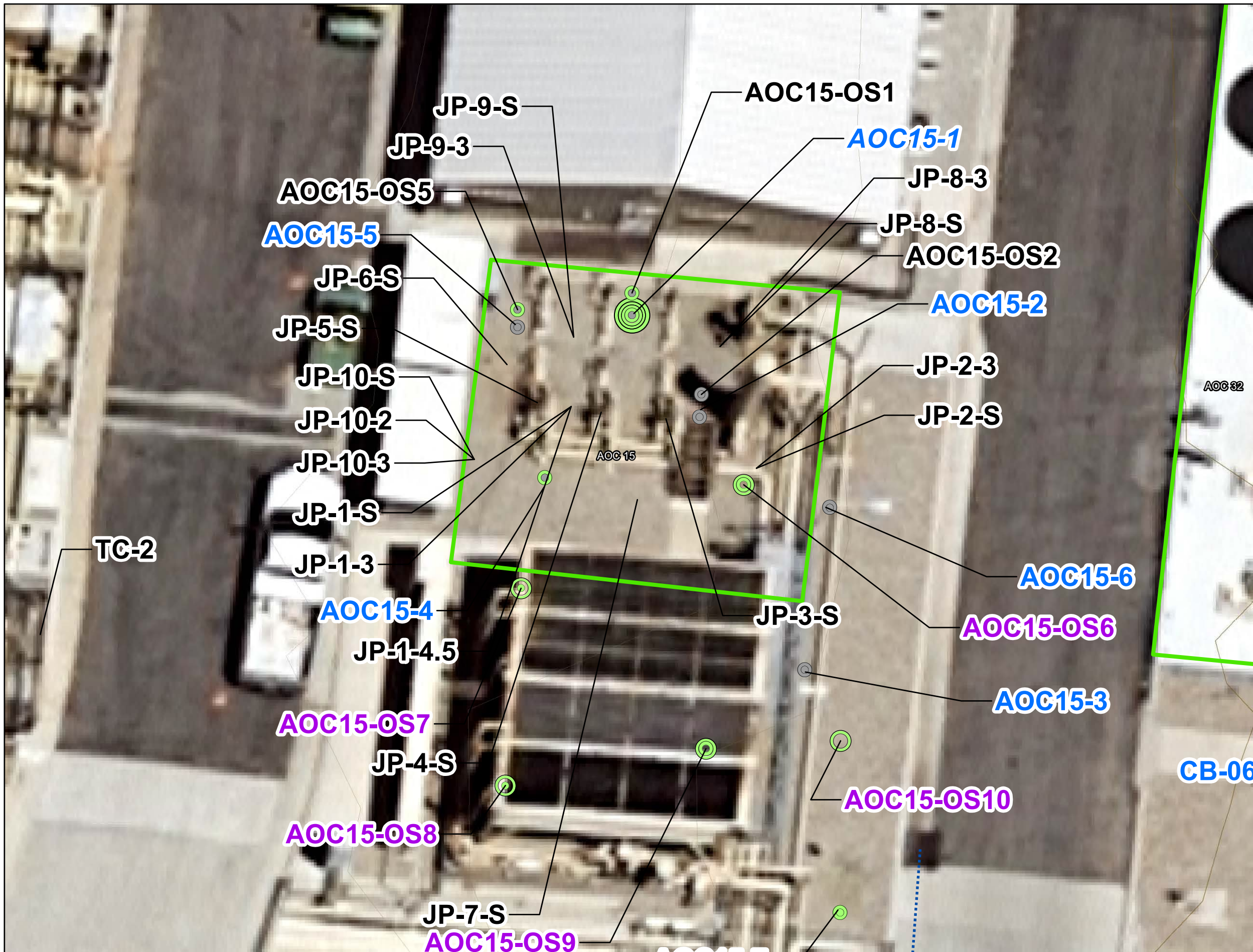
Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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 3-14o
Human Dioxins and Furans TEQ
Soil Sample Results
AOC 13
RF/RI Report, Volume 3 –
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PG&E Topcock Compressor Station, Needles, California



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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 (Part B)
□ Depth Unknown	● Sample removed during excavation
○ 0 to 1 ft bgs	● ≤ background
○ >1 to 3 ft bgs	
○ >3 to 6 ft bgs	
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:

Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

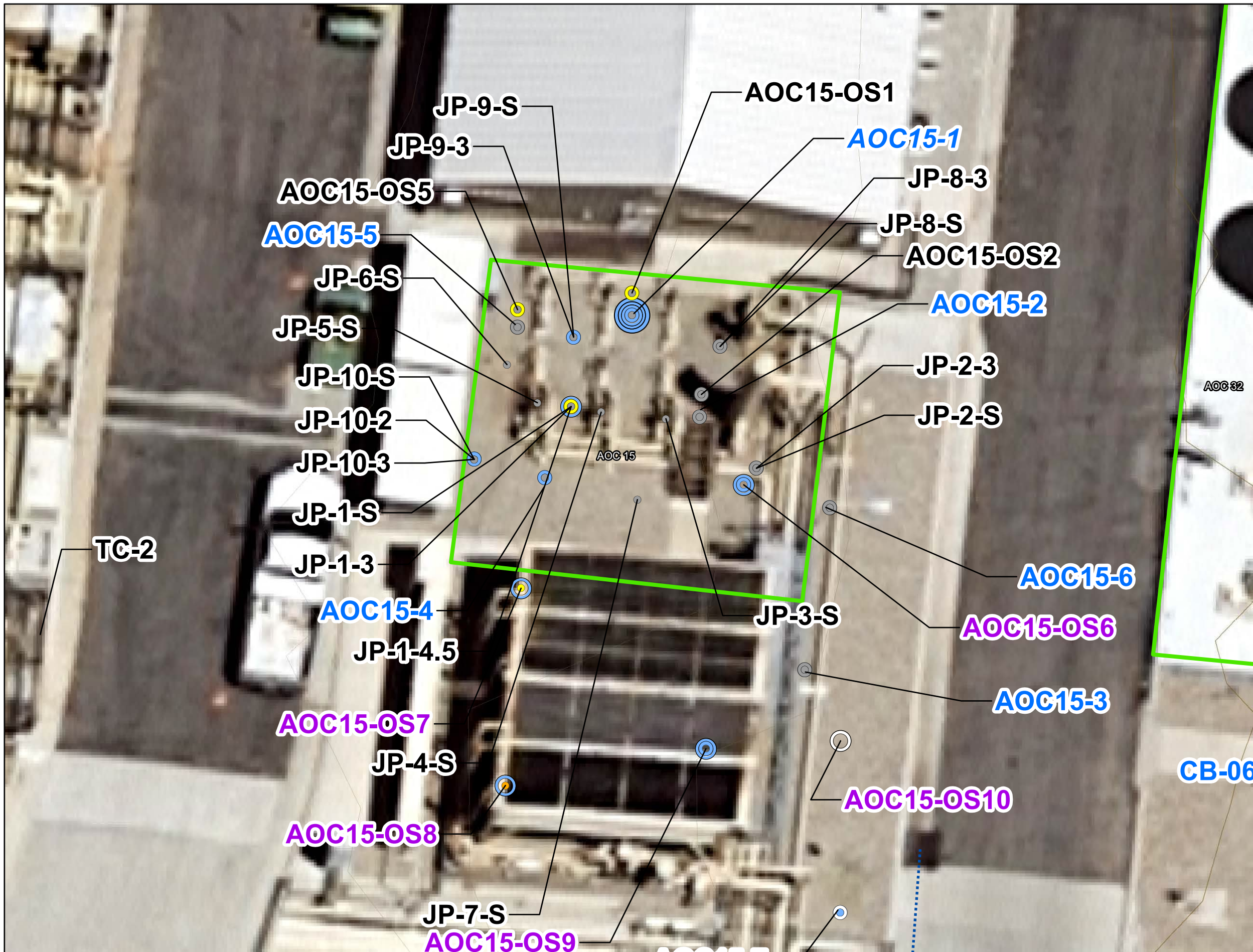
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

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 screening level is set at the background value.

0 4.5 9 18 Feet

Figure 3-15a
Arsenic
Soil Sample Results
AOC 15
 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 (Part B)
□ Depth Unknown	● Sample removed during excavation
○ 0 to 1 ft bgs	○ Non-detect
○ >1 to 3 ft bgs	○ ≤ background
○ >3 to 6 ft bgs	○ > background to ≤ CSL
○ >6 to 10 ft bgs	○ > CSL to ≤ 10x CSL
○ >11 to 15 ft bgs	○ > 10x CSL to ≤ 100x CSL
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

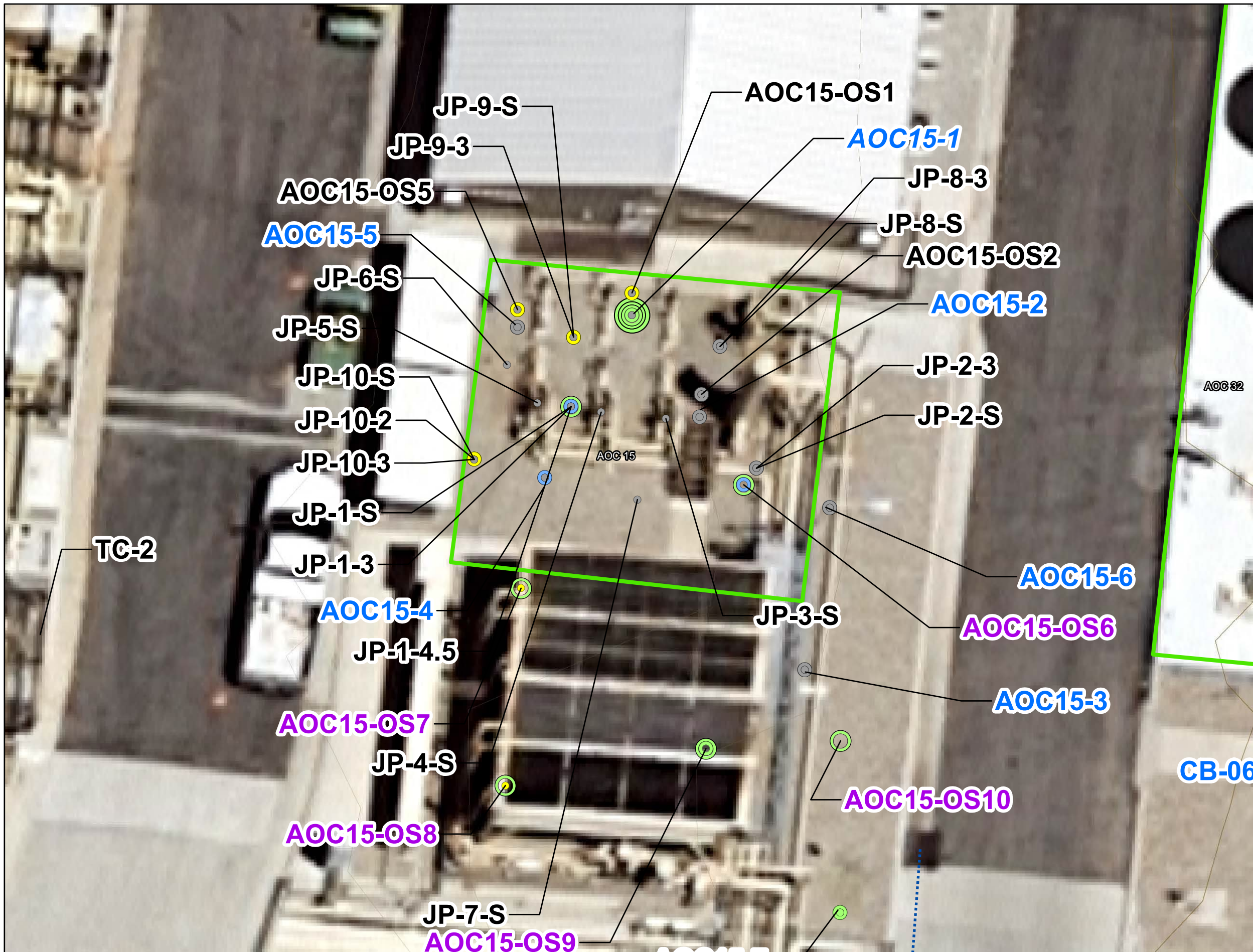
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

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 4.5 9 18 Feet

Figure 3-15b
Hexavalent Chromium
Soil Sample Results
AOC 15
 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 (Part B)
□ Depth Unknown	● Sample removed during excavation
○ 0 to 1 ft bgs	● ≤ background (ISL)
○ >1 to 3 ft bgs	● >background to ≤ DTSC SL 100 mg/kg
○ >3 to 6 ft bgs	● > DTSC SL 100 mg/kg
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

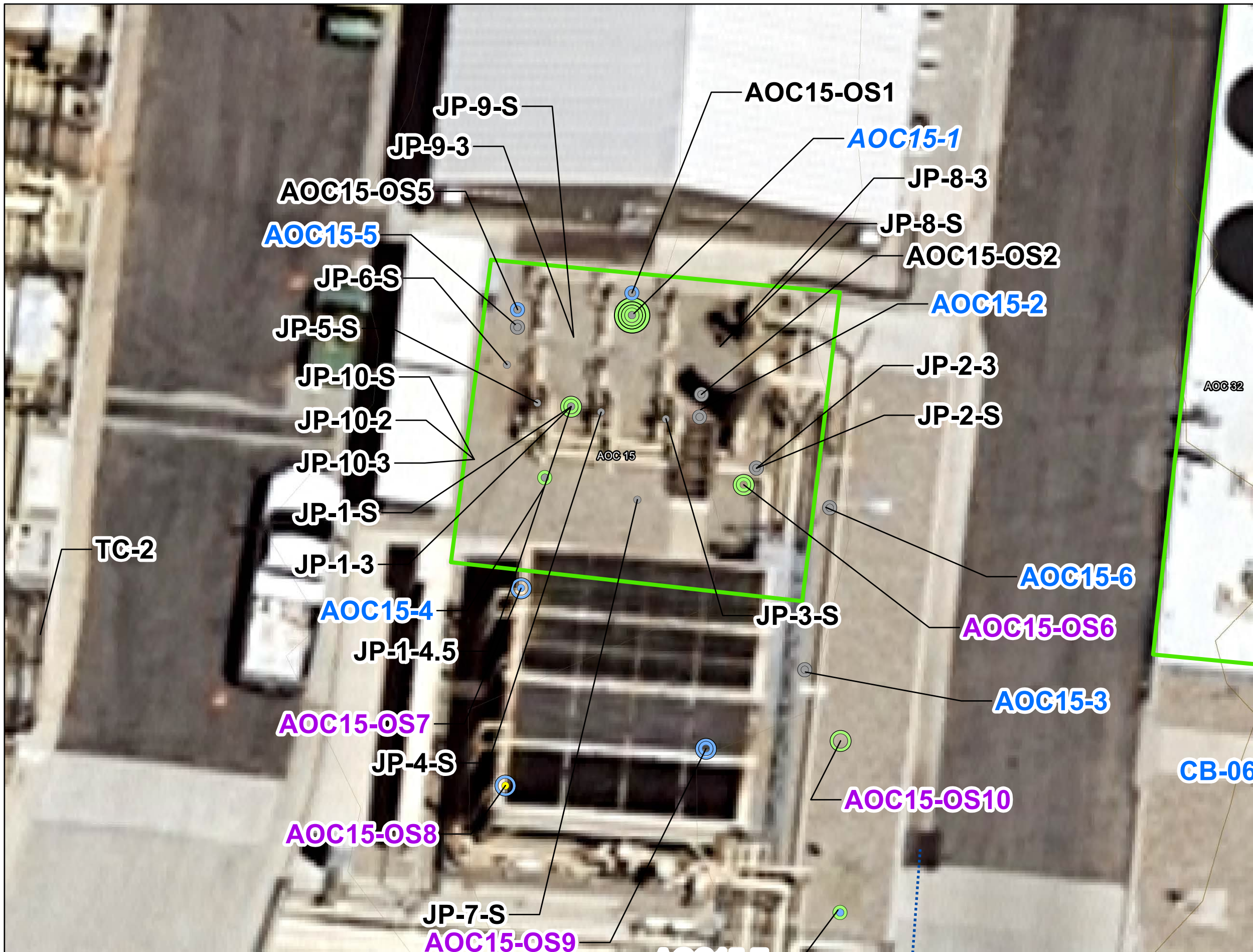
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

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
 Interim Screening Level 39.8 mg/kg
 DTSC Requested Screening Levels 100 mg/kg and 1,000 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.

0 4.5 9 18 Feet

Figure 3-15c
Total Chromium
Soil Sample Results
AOC 15
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS



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 (Part B)
□ Depth Unknown	● Sample removed during excavation
○ 0 to 1 ft bgs	● ≤ background
○ >1 to 3 ft bgs	● > background to ≤ CSL
○ >3 to 6 ft bgs	● > CSL to ≤ 10x CSL
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:

Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

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

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

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

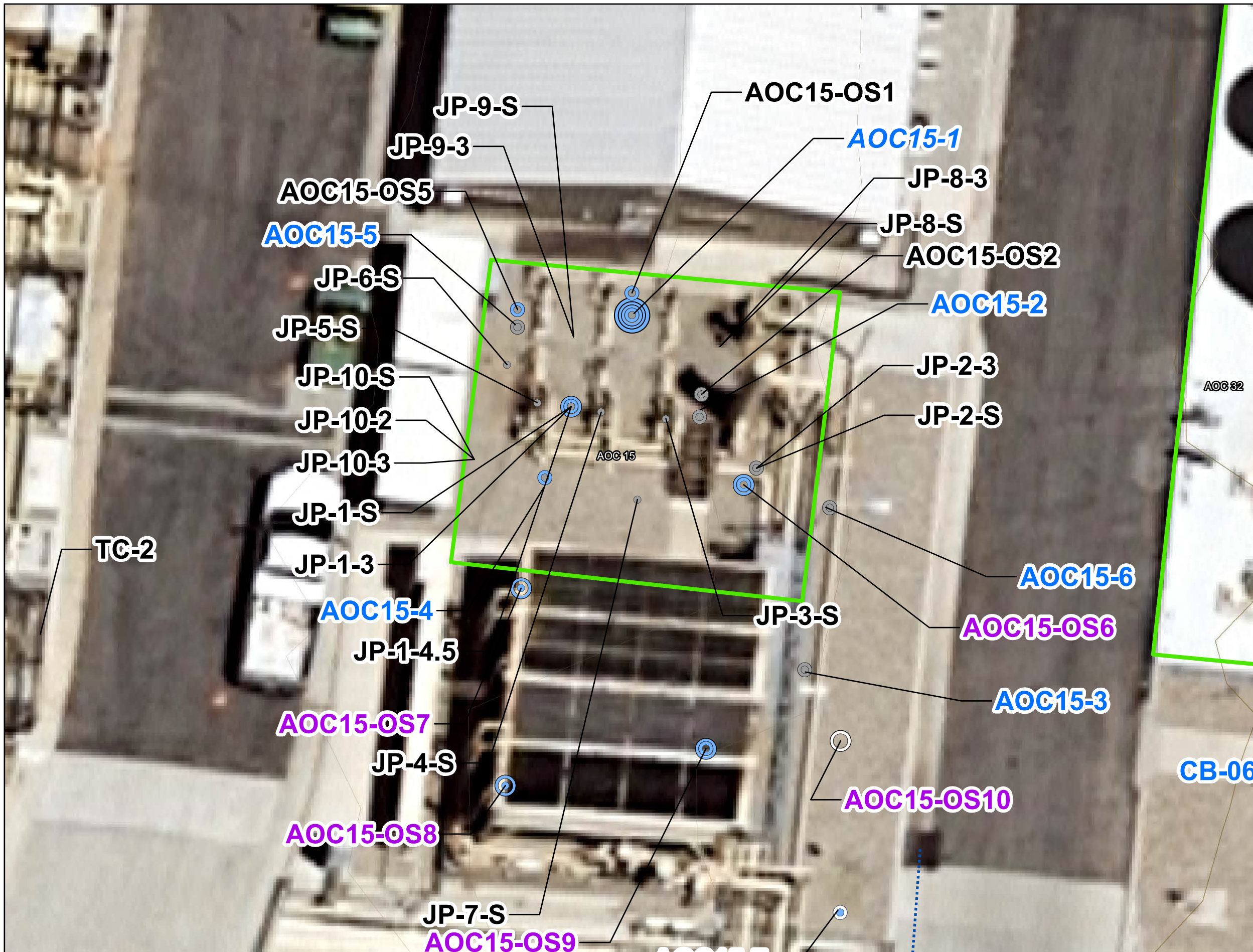
Soil results collected inside the compressor station fence line are compared to applicable background values (for metals) and commercial screening levels to define nature and extent.

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 4.5 9 18 Feet

Figure 3-15e
Lead
Soil Sample Results
AOC 15
 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 (Part B)
□ Depth Unknown	● Sample removed during excavation
○ 0 to 1 ft bgs	○ Non-detect
○ >1 to 3 ft bgs	● > background to <= CSL
○ >3 to 6 ft bgs	
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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

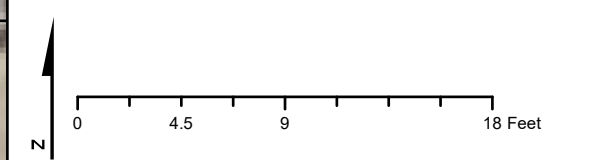
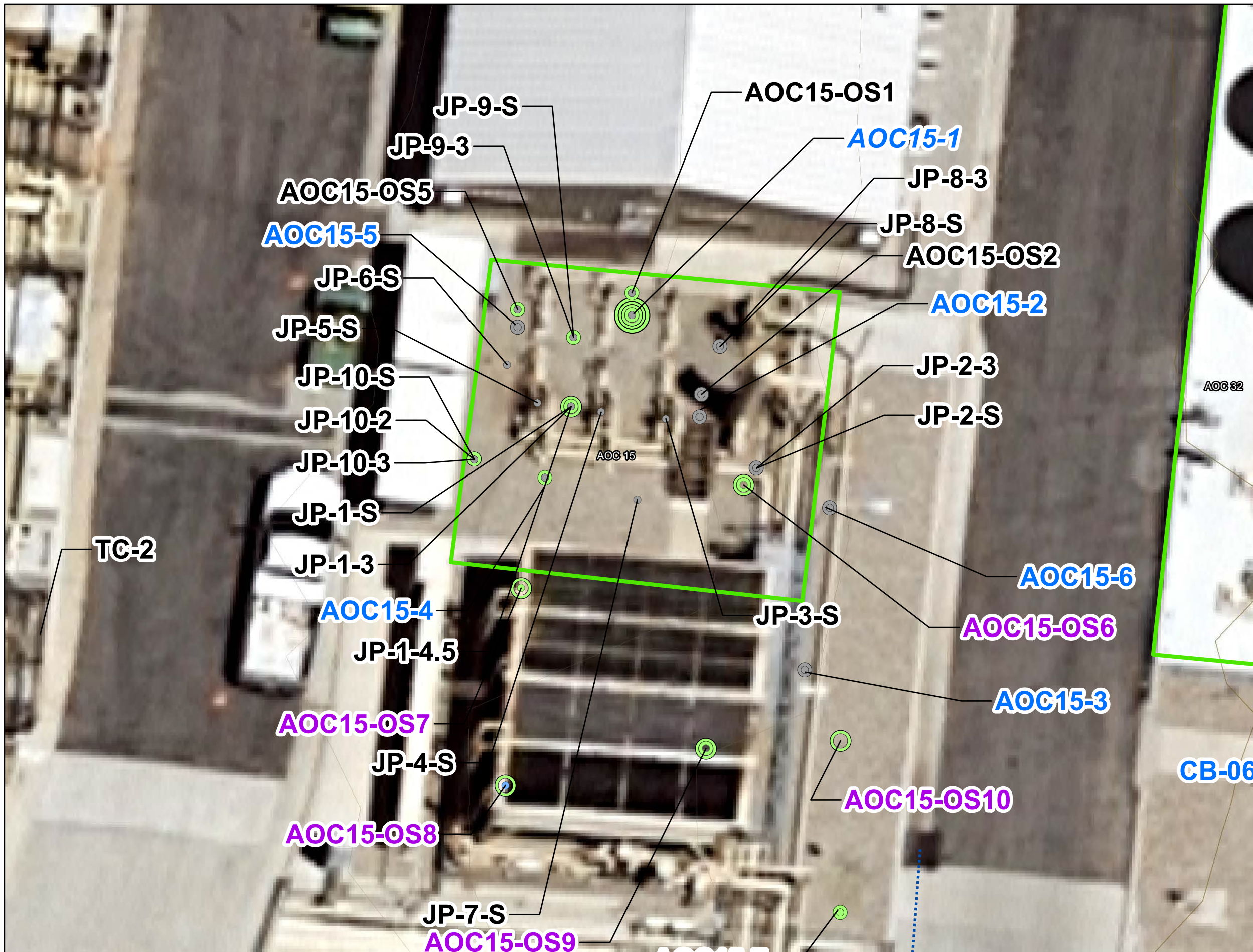


Figure 3-15f
Molybdenum
Soil Sample Results
AOC 15
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

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

Depth	Concentration (Part B)
□ Depth Unknown	● Sample removed during excavation
○ 0 to 1 ft bgs	● ≤ background
○ >1 to 3 ft bgs	● > background to ≤ CSL
○ >3 to 6 ft bgs	
○ >6 to 10 ft bgs	
○ >11 to 15 ft bgs	
○ >16 ft bgs	

Note:

Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 4.5 9 18 Feet

Figure 3-15g
Zinc
Soil Sample Results
AOC 15
 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 (Part A)
□ Depth Unknown	● ≤ background (ISL)
○ 0 to 1 ft bgs	● ≤ background
○ >1 to 3 ft bgs	● ≤ background
○ >3 to 6 ft bgs	● ≤ background
○ >6 to 10 ft bgs	● ≤ background
○ >11 to 15 ft bgs	● ≤ background
○ >16 ft bgs	● ≤ background

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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 screening level is set at the background value.

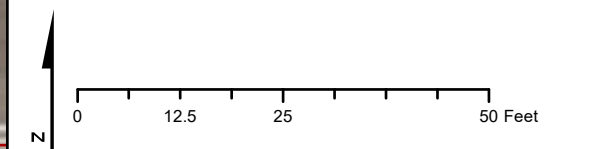
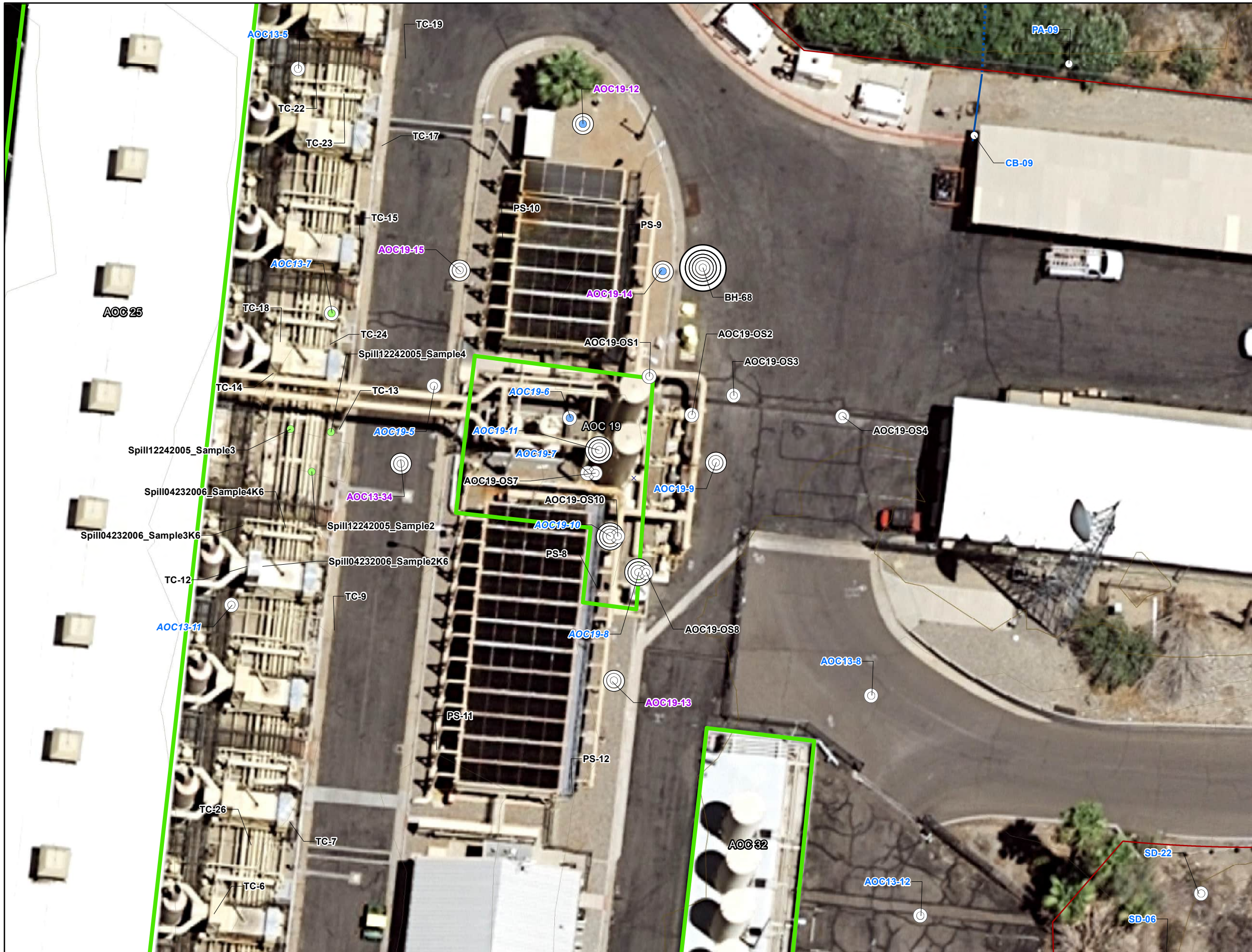


Figure 3-16a
Arsenic
Soil Sample Results
AOC 19
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



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 (Part A)	Concentration (Part B)
□ Depth Unknown	○ Non-detect	○ Non-detect
○ 0 to 1 ft bgs	○ Non-detect	○ Non-detect
○ >1 to 3 ft bgs	○ Non-detect	○ Non-detect
○ >3 to 6 ft bgs	○ Non-detect	● ≤ background
○ >6 to 10 ft bgs	○ Non-detect	● > background to ≤ CSL
○ >11 to 15 ft bgs		
○ >16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

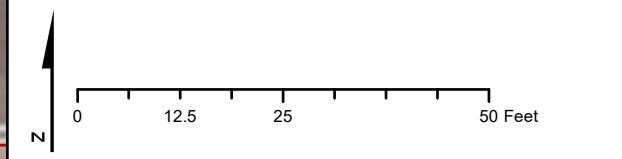


Figure 3-16b
Cadmium
Soil Sample Results
AOC 19
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 (Part A)
□ Depth Unknown	○ Non-detect
○ 0 to 1 ft bgs	
○ >1 to 3 ft bgs	○ Non-detect
○ >3 to 6 ft bgs	○ <= background
○ >6 to 10 ft bgs	○ > background to <= CSL
○ >11 to 15 ft bgs	○ > CSL to <= 10x CSL
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

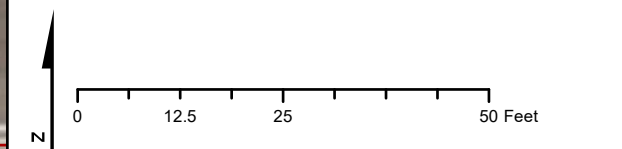


Figure 3-16c
Hexavalent Chromium
Soil Sample Results
AOC 19
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California





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 (Part A)	Concentration (Part B)
□ Depth Unknown	● ≤ background (ISL)	● ≤ background
○ 0 to 1 ft bgs	● > background to ≤ DTSC SL 100 mg/kg	● > DTSC SL 100 mg/kg
○ >1 to 3 ft bgs	● > DTSC SL 1,000 mg/kg	● > DTSC SL 1,000 mg/kg
○ >3 to 6 ft bgs		
○ >6 to 10 ft bgs		
○ >11 to 15 ft bgs		
○ >16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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
- Interim Screening Level 39.8 mg/kg
- DTSC Requested Screening Levels 100 mg/kg and 1,000 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.

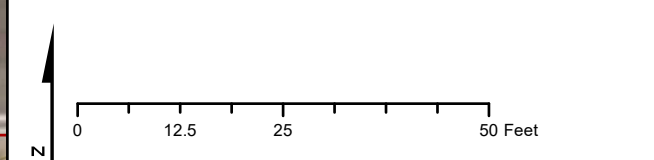


Figure 3-16d
Total Chromium
Soil Sample Results
AOC 19
RFI/RI Report, Volume 3 –
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PG&E Topock Compressor Station, Needles, California





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 (Part A)	Concentration (Part B)
□ Depth Unknown	● ≤ background (ISL)	○ Non-detect
○ 0 to 1 ft bgs		● ≤ background
○ >1 to 3 ft bgs		● > background to ≤ CSL
○ >3 to 6 ft bgs		
○ >6 to 10 ft bgs		
○ >11 to 15 ft bgs		
○ >16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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

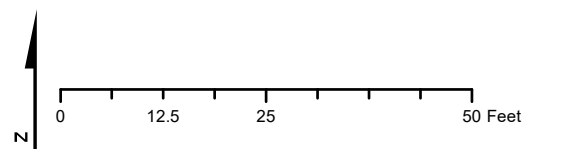


Figure 3-16e
Copper
Soil Sample Results
AOC 19
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



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 (Part A)	Concentration (Part B)
□ Depth Unknown	● ≤ background (ISL)	○ Non-detect
○ 0 to 1 ft bgs	● > background to ≤ HHSL	● > background to ≤ CSL
○ >1 to 3 ft bgs	● > HHSL to ≤ 10x HHSL	● > CSL to ≤ 10x CSL
○ >3 to 6 ft bgs		
○ >6 to 10 ft bgs		
○ >11 to 15 ft bgs		
○ >16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

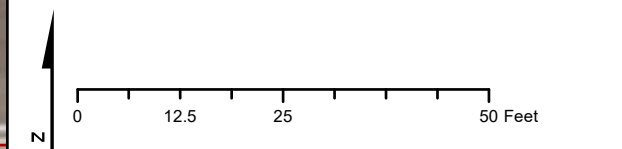


Figure 3-16f
Lead
Soil Sample Results
AOC 19
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California
JACOBS



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 (Part A)	Concentration (Part B)
□ Depth Unknown	○ Non-detect	○ Non-detect
○ 0 to 1 ft bgs	○ Non-detect	○ Non-detect
○ >1 to 3 ft bgs	○ Non-detect	○ Non-detect
○ >3 to 6 ft bgs	○ Non-detect	○ Non-detect
○ >6 to 10 ft bgs	○ Non-detect	○ Non-detect
○ >11 to 15 ft bgs	○ Non-detect	○ Non-detect
○ >16 ft bgs	○ Non-detect	○ Non-detect
	○ ≤ background	○ > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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

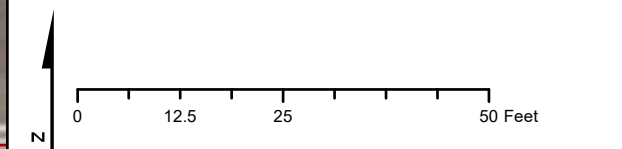


Figure 3-16g
Molybdenum
Soil Sample Results
AOC 19
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS



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 (Part A)
□ Depth Unknown	● ≤ background (ISL)
○ 0 to 1 ft bgs	● > background to ≤ HHSL
○ >1 to 3 ft bgs	
○ >3 to 6 ft bgs	Concentration (Part B)
○ >6 to 10 ft bgs	● ≤ background
○ >11 to 15 ft bgs	● > background to ≤ CSL
○ >16 ft bgs	

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

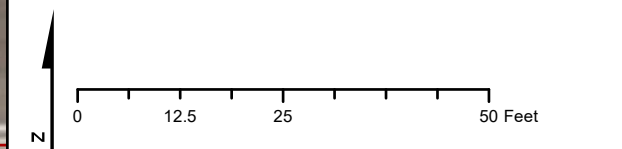


Figure 3-16h
Zinc
Soil Sample Results
AOC 19
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California





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 (Part A)	Concentration (Part B)
□ Depth Unknown	○ Non-detect	○ Non-detect
○ 0 to 1 ft bgs	● ≤ background	● ≤ background
○ >1 to 3 ft bgs	● > background to ≤ HHSL (ISL)	● > background to ≤ CSL
○ >3 to 6 ft bgs		● > CSL to ≤ 10x CSL
○ >6 to 10 ft bgs		
○ >11 to 15 ft bgs		
○ >16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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

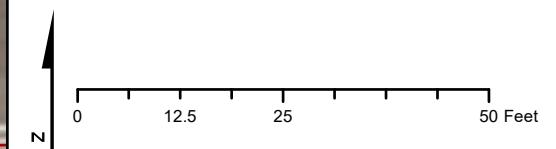
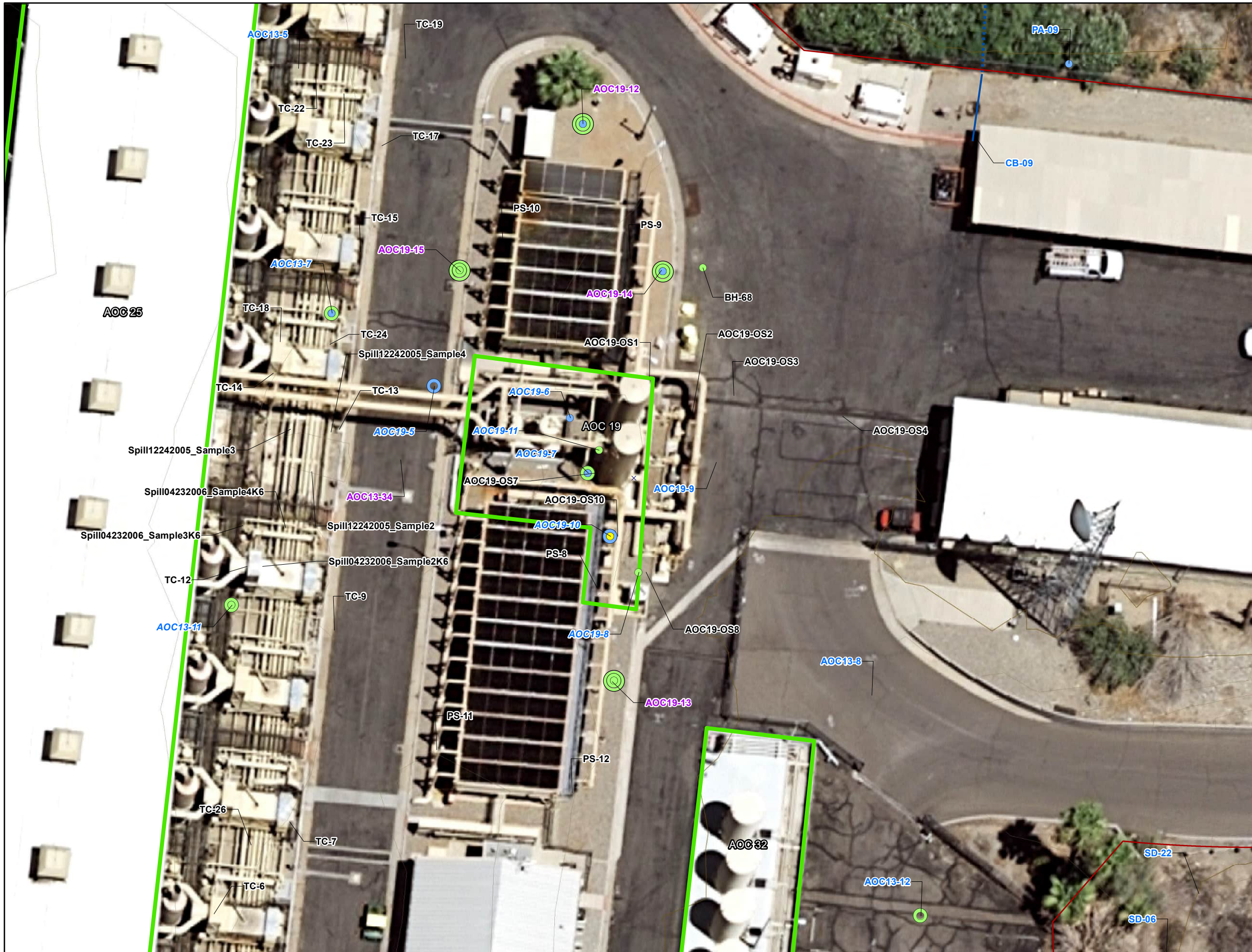


Figure 3-16i
Benzo(a)Pyrene Equivalent
Soil Sample Results
AOC 19
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS



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 (Part A)	Concentration (Part B)
□ Depth Unknown	● > background to <= HHSL (ISL)	● <= background
○ 0 to 1 ft bgs	● > background to <= CSL	● > CSL to <= 10x CSL
○ >1 to 3 ft bgs		
○ >3 to 6 ft bgs		
○ >6 to 10 ft bgs		
○ >11 to 15 ft bgs		
○ >16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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

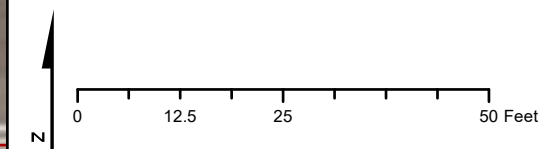
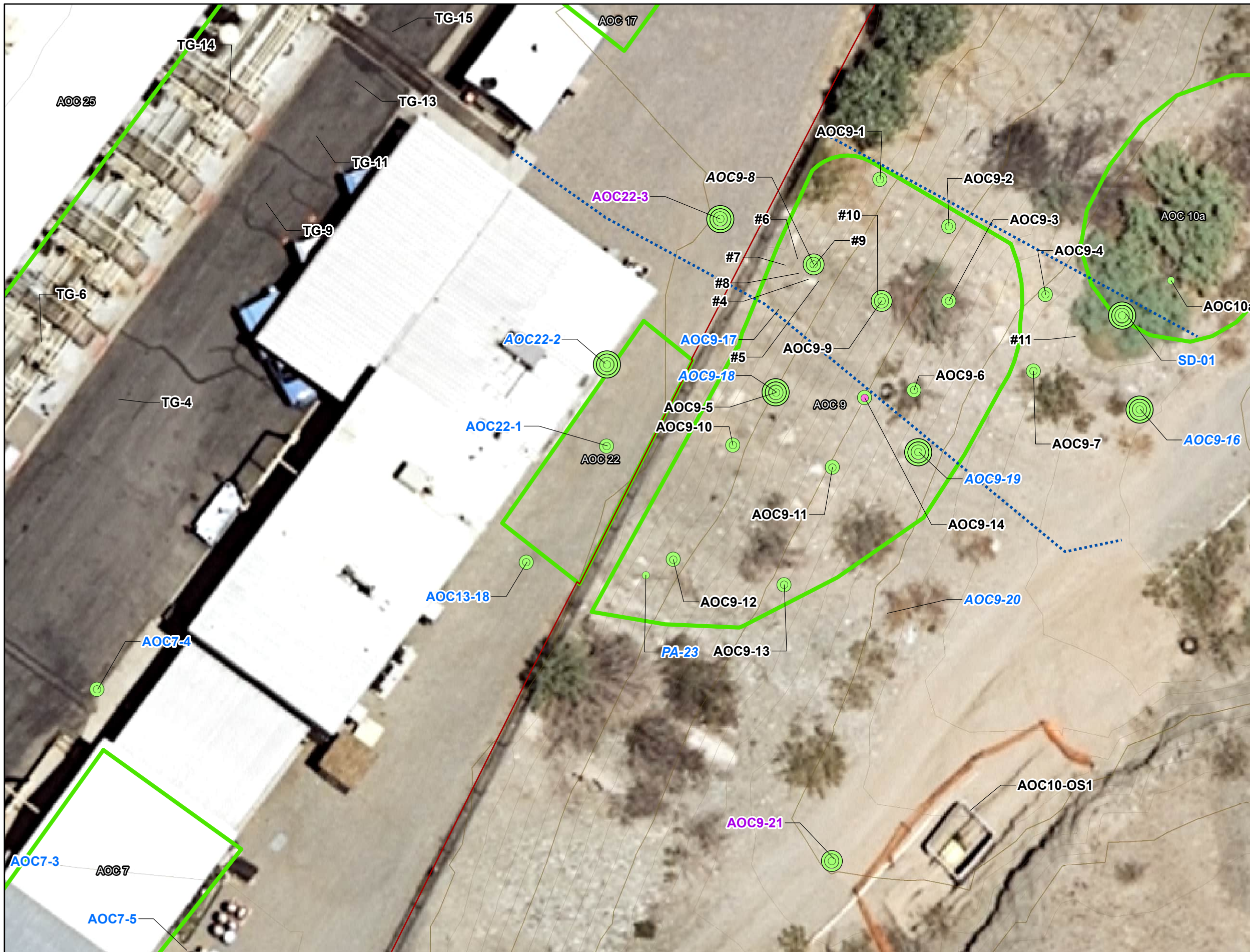


Figure 3-16j
Human Dioxins and Furans TEQ
Soil Sample Results
AOC 19
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS



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 (Part A)
□ Depth Unknown	● ≤ background (ISL)
○ 0 to 1 ft bgs	● > ECV to ≤ 10x ECV
○ >1 to 3 ft bgs	Concentration (Part B)
○ >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

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

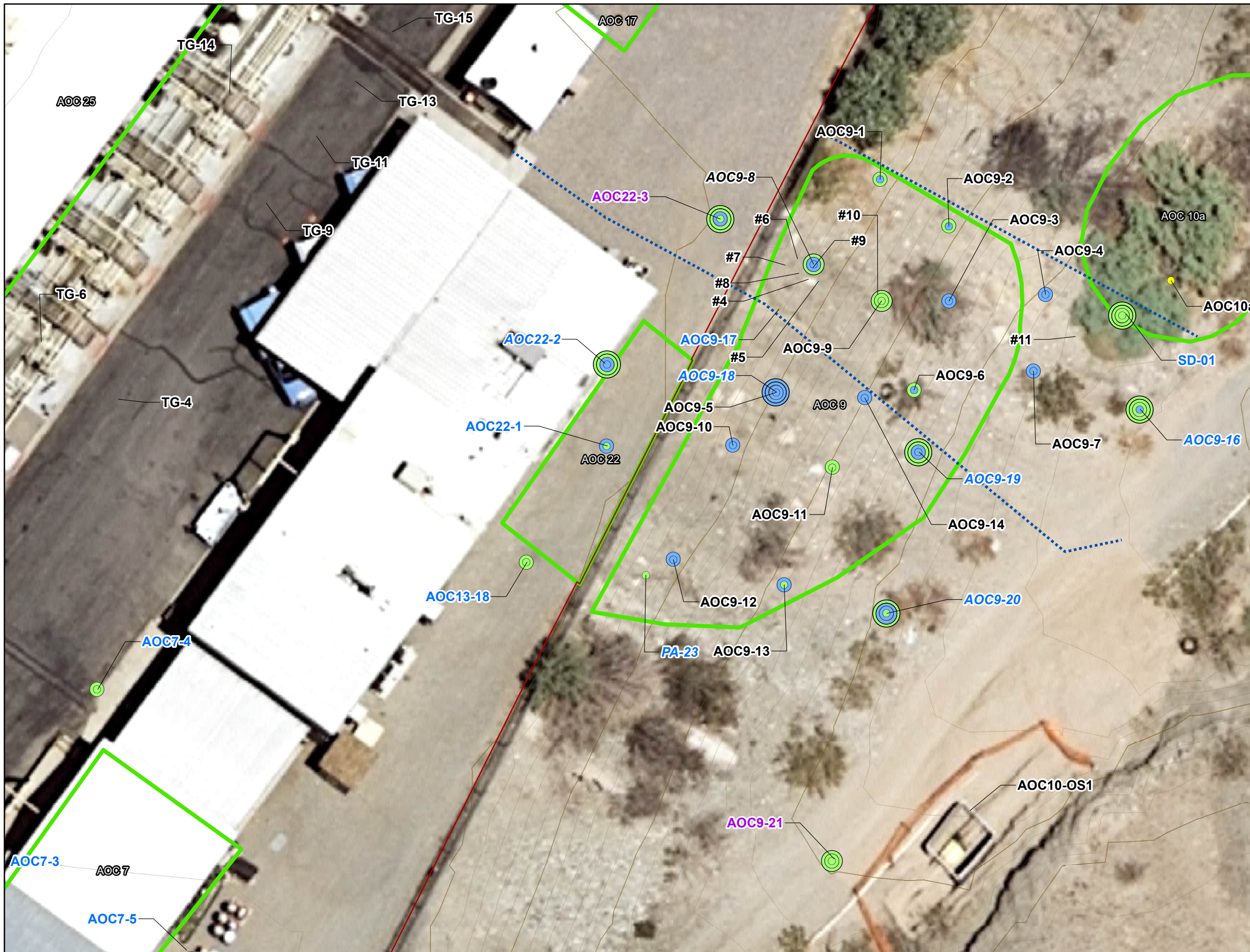
Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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 screening level is set at the background value.

0 5 10 20 Feet

Figure 3-17a
Arsenic
Soil Sample Results
AOC 22
 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
- Topcock Compressor Station Fence Line

Depth	Concentration (Part A)	Concentration (Part B)
□ Depth Unknown	● ≤ background (ISL)	● ≤ background
○ 0 to 1 ft bgs	● > background to ≤ HHSL	● > background to ≤ CSL
○ >1 to 3 ft bgs	● > HHSL to ≤ 10x HHSL	
○ >3 to 6 ft bgs		
○ >6 to 10 ft bgs		
○ >11 to 15 ft bgs		
○ >16 ft bgs		

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

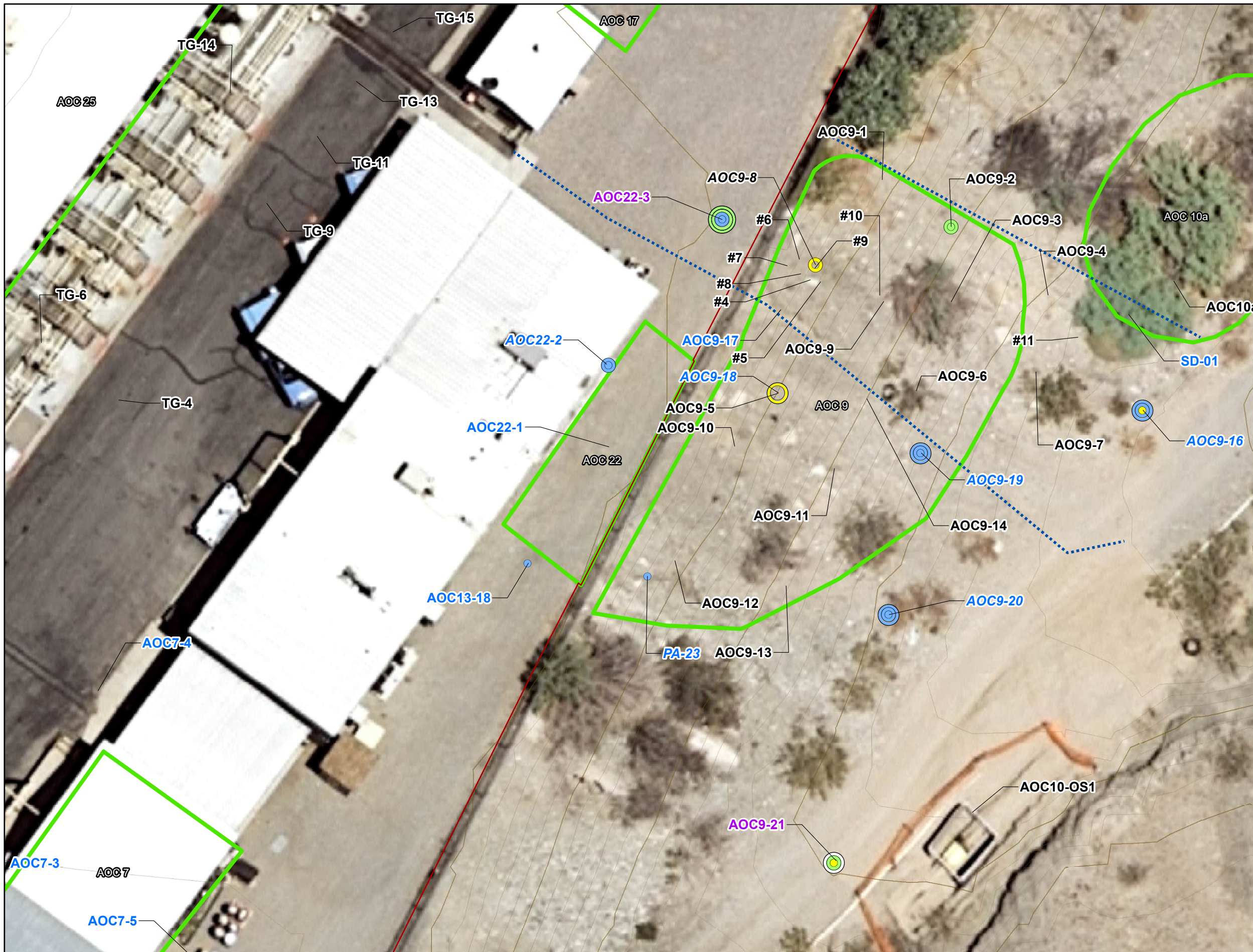
Lead
 BKG 8.39 mg/kg
 ECV 0.0166 mg/kg
 Residential Screening Level 80 mg/kg
 Commercial Screening Level 320 mg/kg

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

0 5 10 20 Feet

Figure 3-17b
Lead
Soil Sample Results
AOC 22
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topcock 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 (Part A)	Concentration (Part B)
□ Depth Unknown	○ Non-detect	○ ≤ background
○ 0 to 1 ft bgs	○ ≤ background	○ > background to ≤ HHSL (ISL)
○ >1 to 3 ft bgs	○ > background to ≤ HHSL (ISL)	○ > HHSL to ≤ 10x HHSL
○ >3 to 6 ft bgs	○ > background to ≤ HHSL (ISL)	○ ≤ background
○ >6 to 10 ft bgs	○ > background to ≤ HHSL (ISL)	○ > background to ≤ CSL
○ >11 to 15 ft bgs	○ > background to ≤ HHSL (ISL)	○ > background to ≤ CSL
○ >16 ft bgs	○ > background to ≤ HHSL (ISL)	○ > background to ≤ CSL

Note:
Topographic contours shown are in 2-foot intervals

If multiple samples were collected within a depth interval displayed on the figure (e.g., >1 to 3 ft bgs), the ring is colored based on the result of the deepest sample.

Locations labeled in **VIOLET** were part of the 2017 and later 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.

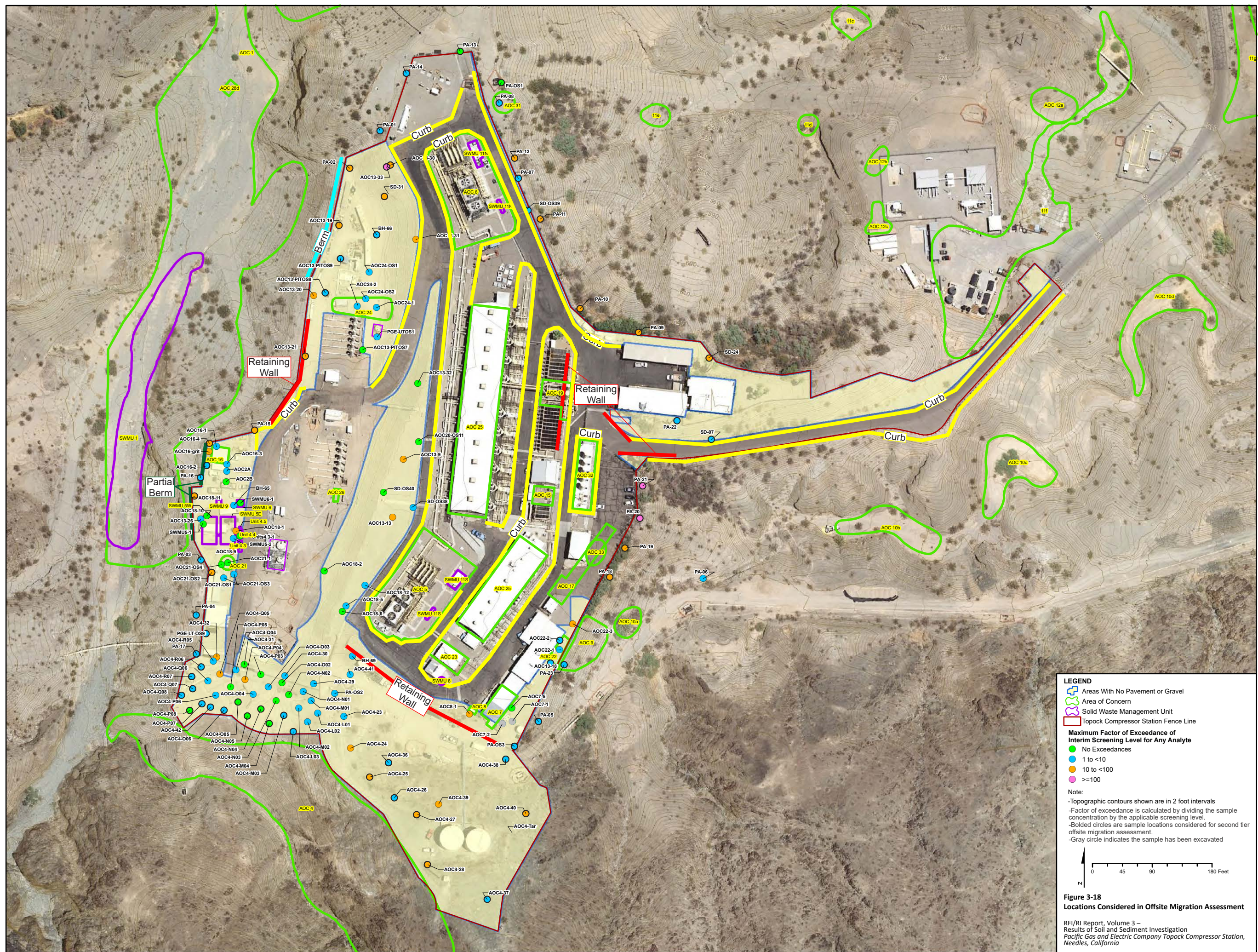
Soil results collected outside the compressor station fence line are compared to applicable background values (for metals), residential human health screening levels, and ecological comparison values to define nature and extent.

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

0 5 10 20 Feet

Figure 3-17c
Human Dioxins and Furans TEQ
Soil Sample Results
AOC 22
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California





LEGEND

- Areas With No Pavement or Gravel
- Area of Concern
- Solid Waste Management Unit
- Topock Compressor Station Fence Line

Maximum Factor of Exceedance of Interim Screening Level for Any Analyte

- No Exceedances
- 1 to <10
- 10 to <100
- >=100

Note:

- Topographic contours shown are in 2 foot intervals
- Factor of exceedance is calculated by dividing the sample concentration by the applicable screening level.
- Bolder circles are sample locations considered for second tier offsite migration assessment.
- Gray circle indicates the sample has been excavated

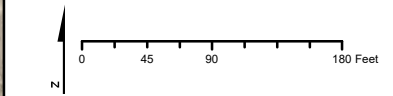
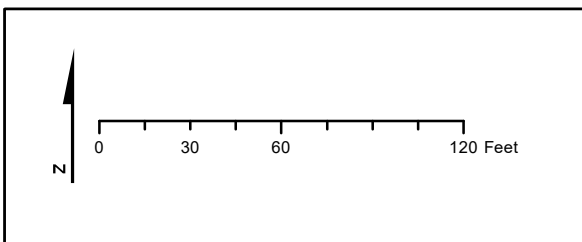


Figure 3-18
Locations Considered in Offsite Migration Assessment

RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
Pacific Gas and Electric Company Topock Compressor Station,
Needles, California



LEGEND

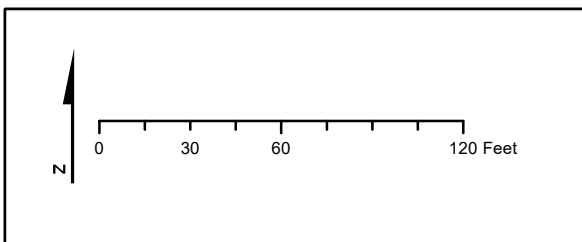
- Catch Basin Location
- Storm Drain Location
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Video Surveyed

Storm Drain Line Segments

- SDL11-A
- SDL11-B
- SDL11-C
- SDL11-D
- SDL11-E
- SDL3-C



Figure 3-19
Storm Drain Alignment
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

- Cleanout
- Sump
- Floor Drain
- + Manhole
- ⋯ Approximate Location of Floor Drain Piping Below Ground
- ⋯ Approximate Location of Floor Drain Piping Above Ground
- ⋯ Video Surveyed
- <all other values>
- Direction of flow
- Direction of video survey from clean outs

FD-2 Cleanouts, Manholes and Floor Drains Which Have Been Video Surveyed

Note:

AOC20 locations labeled in **VIOLET** were part of the 2016/2017 data (Current Investigation).

AOC20 locations labeled in **BLUE** were part of the 2015/2016 data.

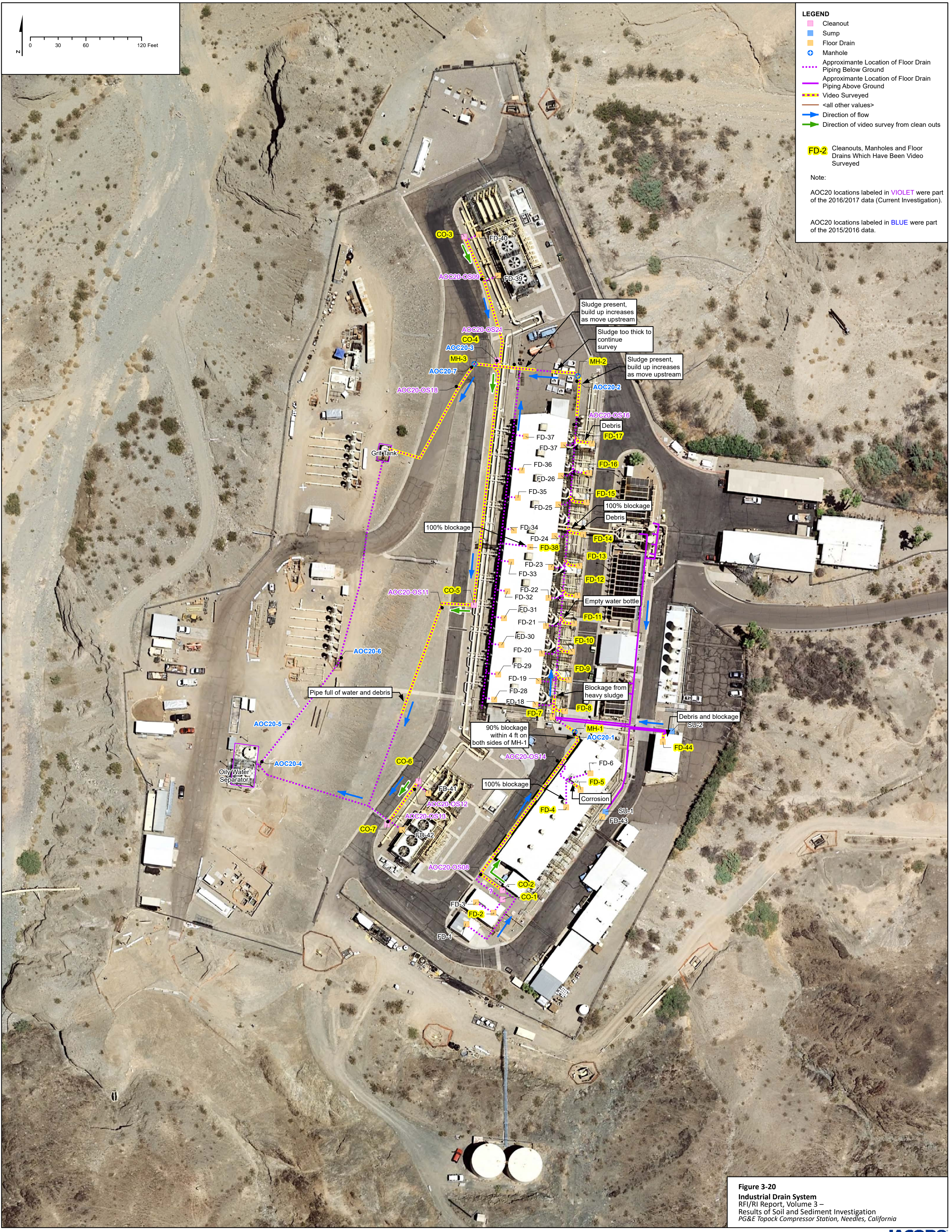


Figure 3-20
Industrial Drain System
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

- Area of Concern
- Solid Waste Management Unit
- Topock Compressor Station Fence Line

Concentration

- Does Not Exceed TTL
- Exceeds TTL

Note:
 AOC 13 is not depicted on the figure.
 TTL = Total Threshold Limit Concentration
 There were no TTL exceedances in the AOC 1 North area.
 Topographic contours shown are in 2 foot intervals.

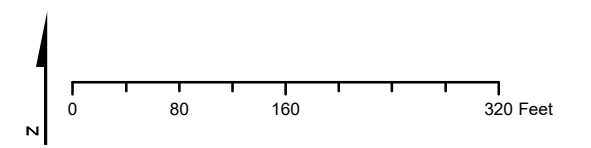
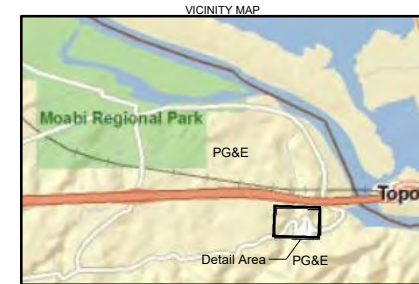
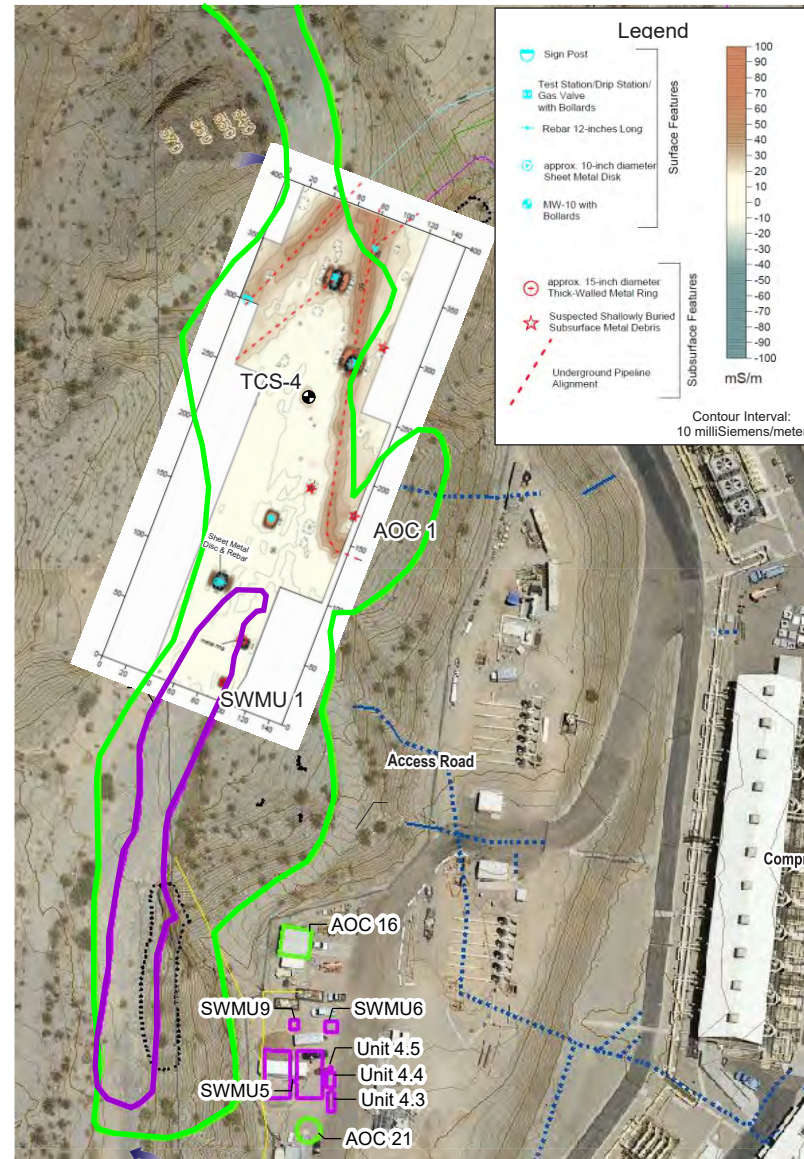
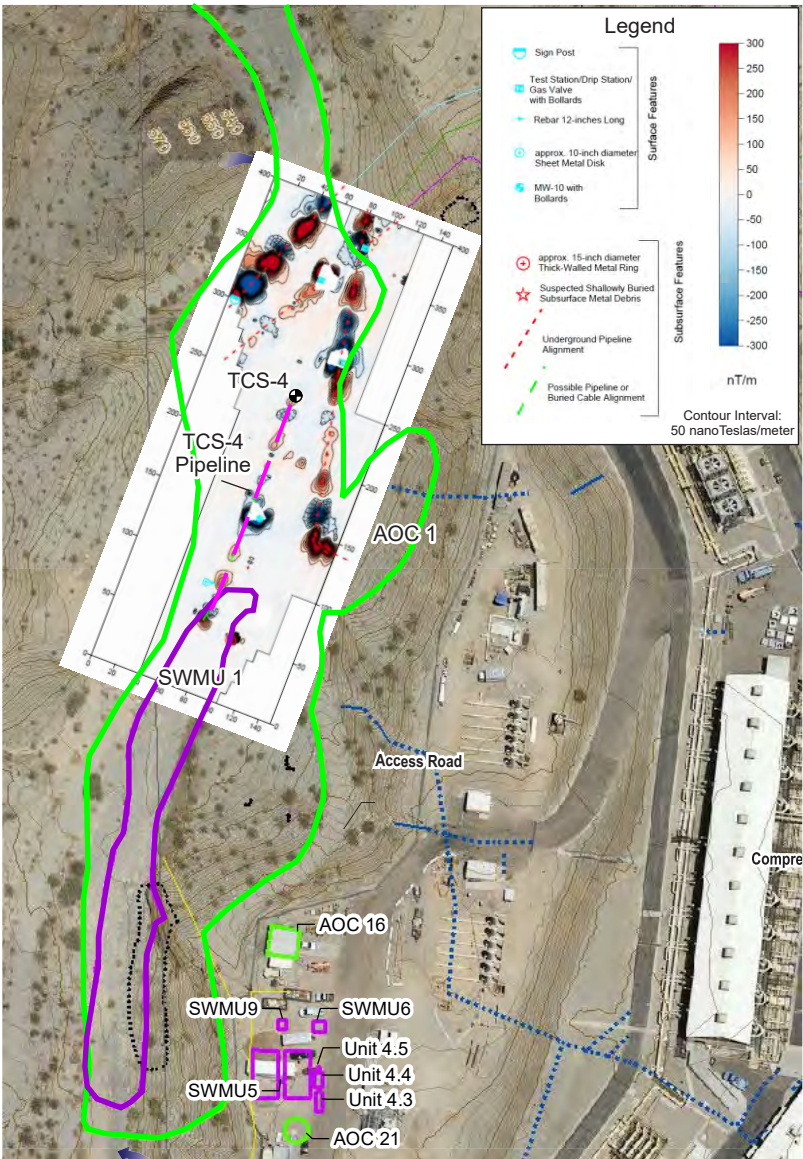


Figure 3-21
Total Threshold Limit Concentration Exceedances
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 Pacific Gas and Electric Company Topock Compressor
 Station, Needles, California

Vertical Magnetic Gradient
Contour Map
Reduced Range
-300 to 300 nanoTeslas/meter

Pseudo-Terrain Conductivity
Contour Map w/overlays
3 kHz Data
In-Line North-South
Instrument Orientation



- LEGEND**
- ▬ AOC Boundary
 - ▬ SWMU/Unit Boundary
 - White Powder Area
 - Property Boundary
 - ▬ Mojave Pipeline
 - ▬ PG&E Pipeline
 - ▬ SoCal Gas Pipeline
 - ▬ Transwestern Pipeline
 - ▬ Historical Discharge Piping
 - ⋯ Approximate Location of Stormwater Piping Below Ground
 - ▬ Approximate Location of Stormwater Piping Above Ground
 - ▬ Estimated TCS-4 Pipeline Location

Note:
Topographic contours shown are in 2 foot intervals.

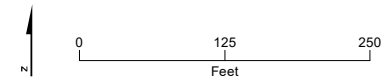
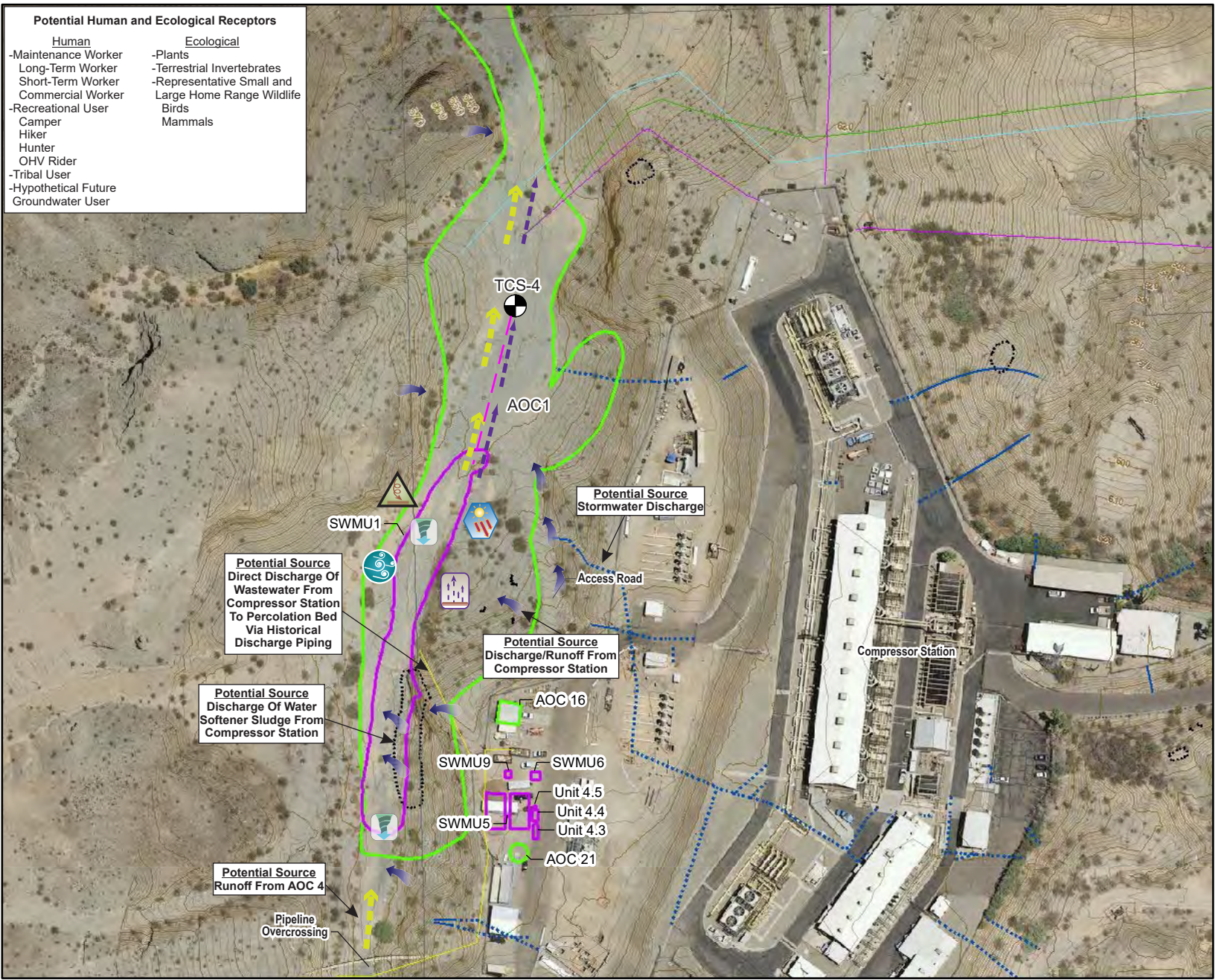


Figure 4-1a
Geophysical Survey Results
AOC 1/SWMU 1
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

- Potential Human and Ecological Receptors**
- | | |
|---------------------------------------|---|
| Human | Ecological |
| -Maintenance Worker | -Plants |
| -Long-Term Worker | -Terrestrial Invertebrates |
| -Short-Term Worker | -Representative Small and Large Home Range Wildlife |
| -Commercial Worker | Birds |
| -Recreational User | Mammals |
| -Camper | |
| -Hiker | |
| -Hunter | |
| -OHV Rider | |
| -Tribal User | |
| -Hypothetical Future Groundwater User | |



LEGEND

- AOC Boundary
- SWMU/Unit Boundary
- White Powder Area
- Property Boundary
- Mojave Pipeline
- PG&E Pipeline
- SoCal Gas Pipeline
- Transwestern Pipeline
- Historical Discharge Piping
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Estimated TCS-4 Pipeline Location

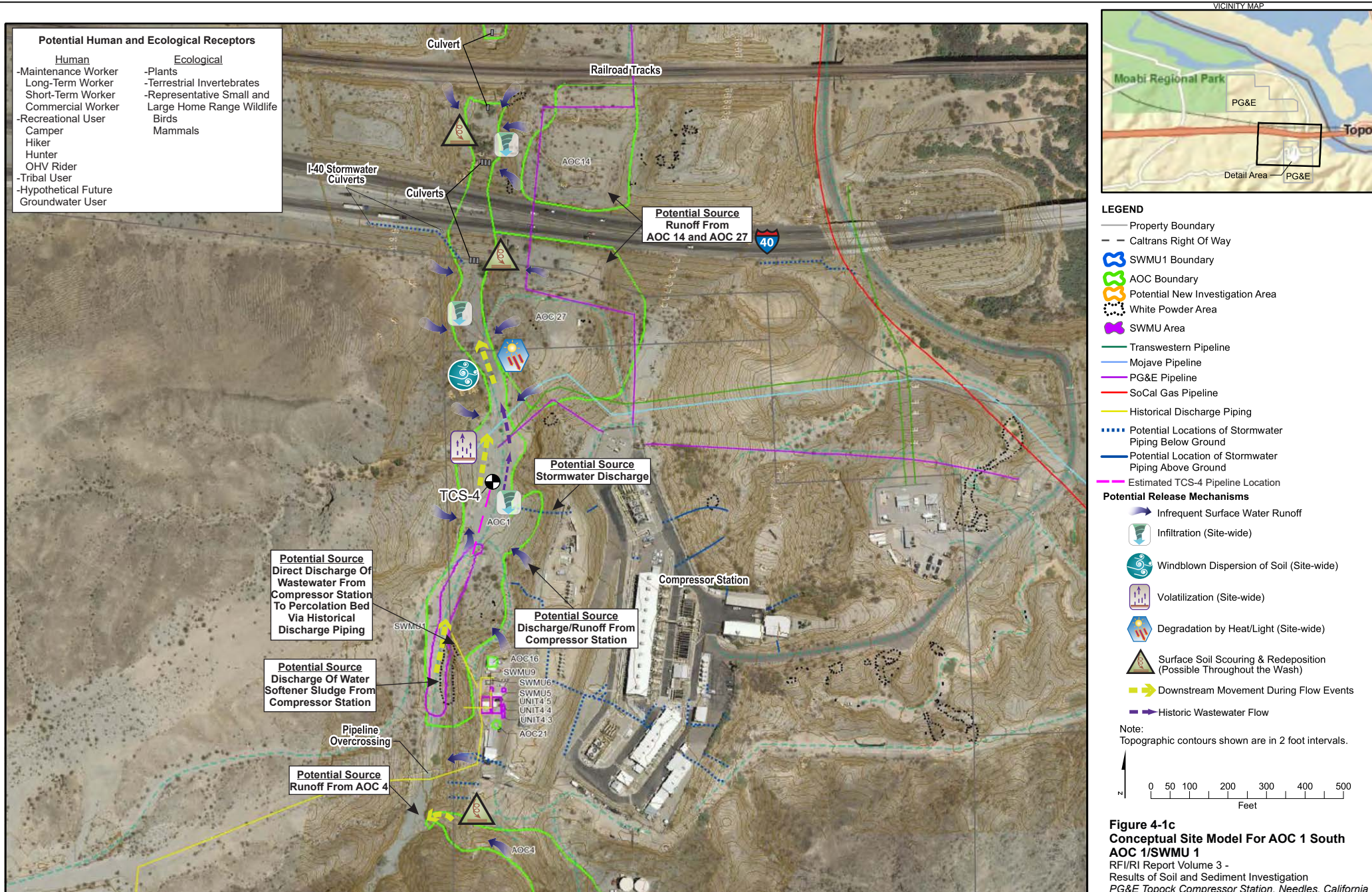
Potential Release Mechanisms

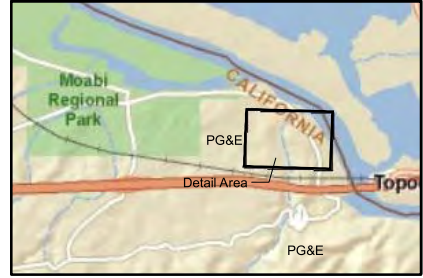
- ➔ Infrequent Surface Water Runoff
- ⬇ Infiltration (Site-wide)
- ⊙ Windblown Dispersion of Soil (Site-wide)
- ⬆ Volatilization (Site-wide)
- ⬇ Degradation by Heat/Light (Site-wide)
- ⚠ Surface Soil Scouring & Redeposition (Possible Throughout the Wash)
- ➔ Downstream Movement During Flow Events
- ➔ Historic Wastewater Flow

Note:
Topographic contours shown are in 2 foot intervals.

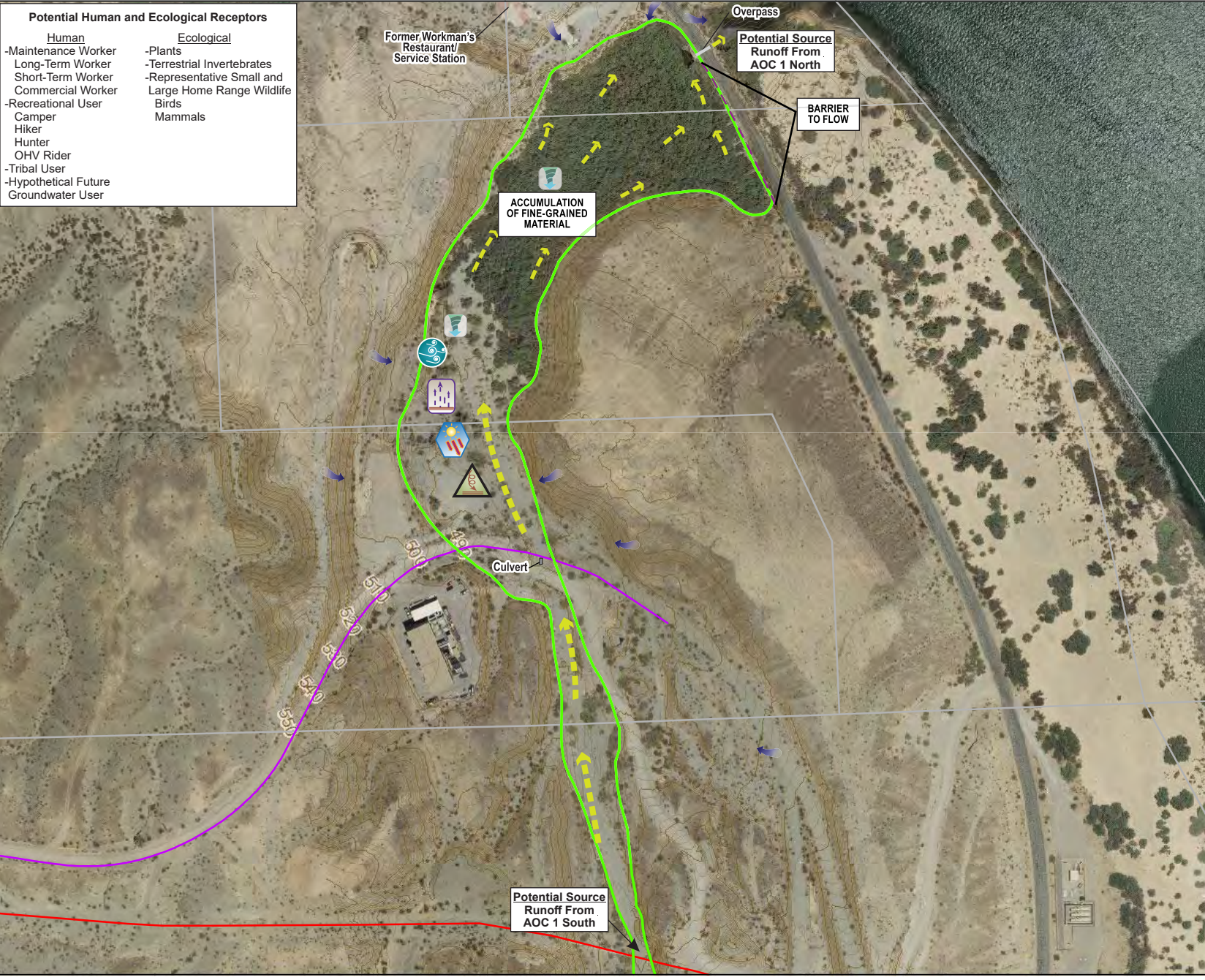
Figure 4-1b
Conceptual Site Model for SWMU 1
AOC 1/SWMU 1
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California







- Potential Human and Ecological Receptors**
- | Human | Ecological |
|---------------------------------------|---|
| -Maintenance Worker | -Plants |
| -Long-Term Worker | -Terrestrial Invertebrates |
| -Short-Term Worker | -Representative Small and Large Home Range Wildlife |
| -Commercial Worker | -Birds |
| -Recreational User | -Mammals |
| -Camper | |
| -Hiker | |
| -Hunter | |
| -OHV Rider | |
| -Tribal User | |
| -Hypothetical Future Groundwater User | |



LEGEND

- Property Boundary
 - PG&E Pipeline
 - SoCal Gas Pipeline
 - AOC 1 Boundary
- Potential Release Mechanisms**
- ↳ Infrequent Surface Water Runoff
 - ↳ Infiltration (Site-wide)
 - ↳ Windblown Dispersion of Soil (Site-wide)
 - ↳ Volatilization (Site-wide)
 - ↳ Degradation by Heat/Light (Site-wide)
 - ↳ Surface Soil Scouring & Redeposition (possible throughout the wash)
 - ↳ Hypothetical Downstream Movement During Flow Events

Note:
Topographic contours shown are in 2 foot intervals.

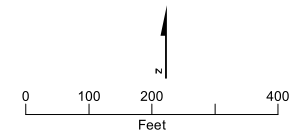
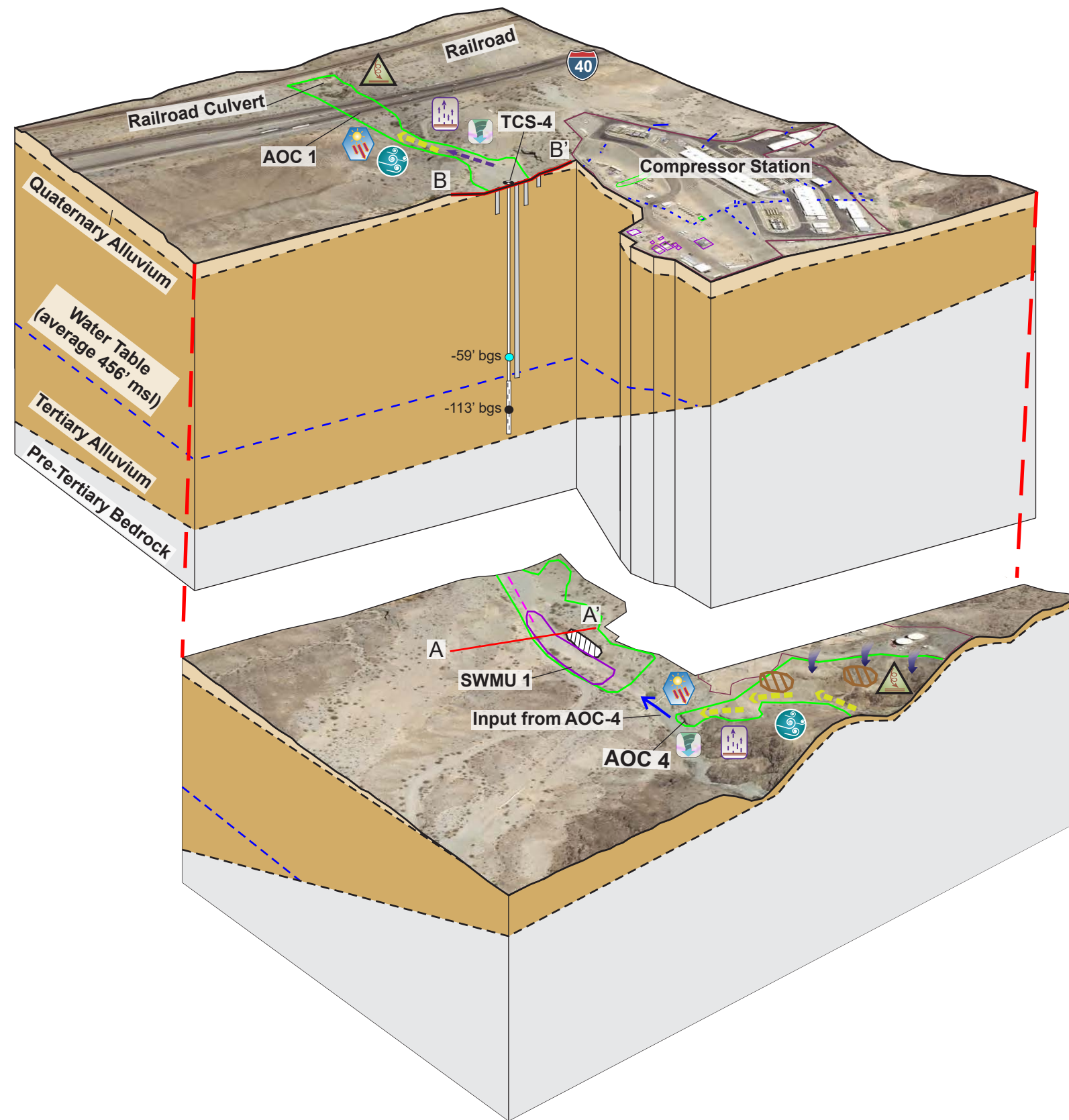


Figure 4-1d
Conceptual Site Model For AOC 1 North
AOC 1/SWMU 1
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California





LEGEND

- ▭ AOC Boundary
- ▭ SWMU/Unit Boundary
- TCS Facility Fence Line
- Approximate Location of Stormwater Piping Above Ground
- - - Approximate Location of Stormwater Piping Below Ground
- Estimated TCS-4 Pipeline Location
- ▭ Potential Burning Related Location
- ▭ Former White Powder Area
- ▭ Soil Boring
- ▭ TCS-4 Well
- Soil CrVI Concentration >0.83 mg/kg
- Soil CrVI Concentration Non-Detect

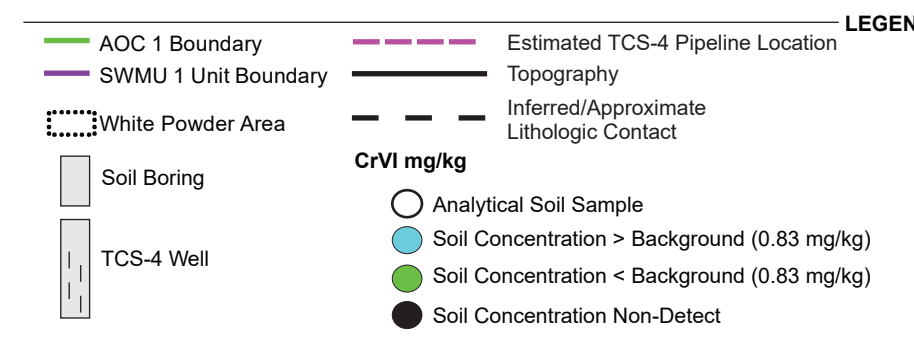
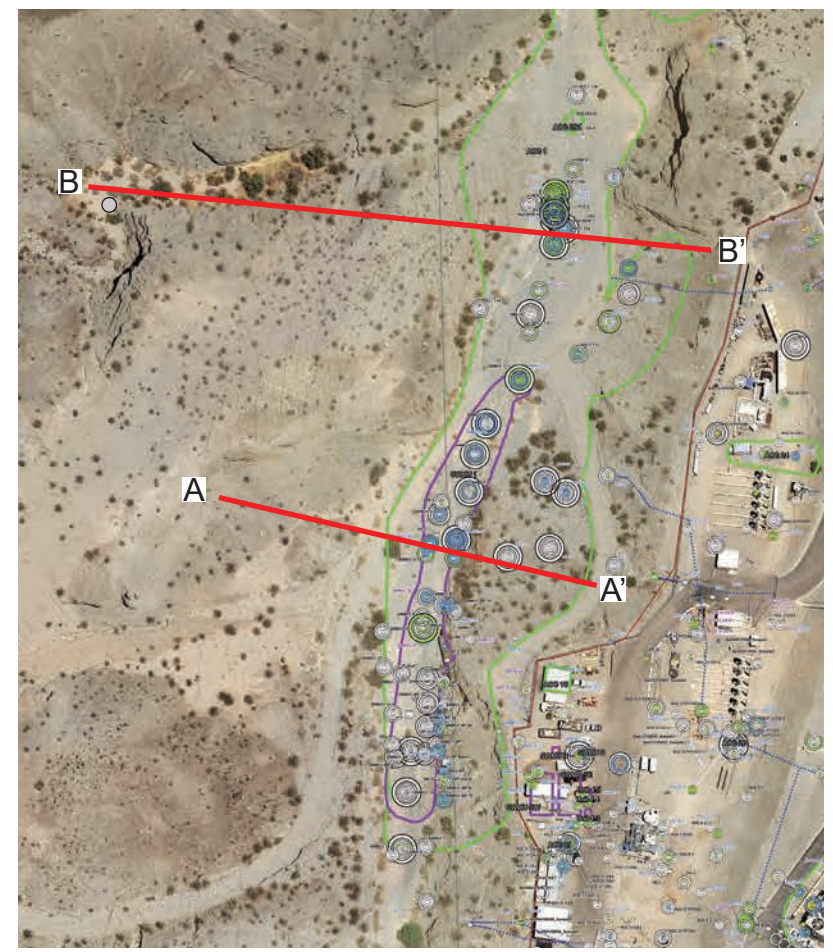
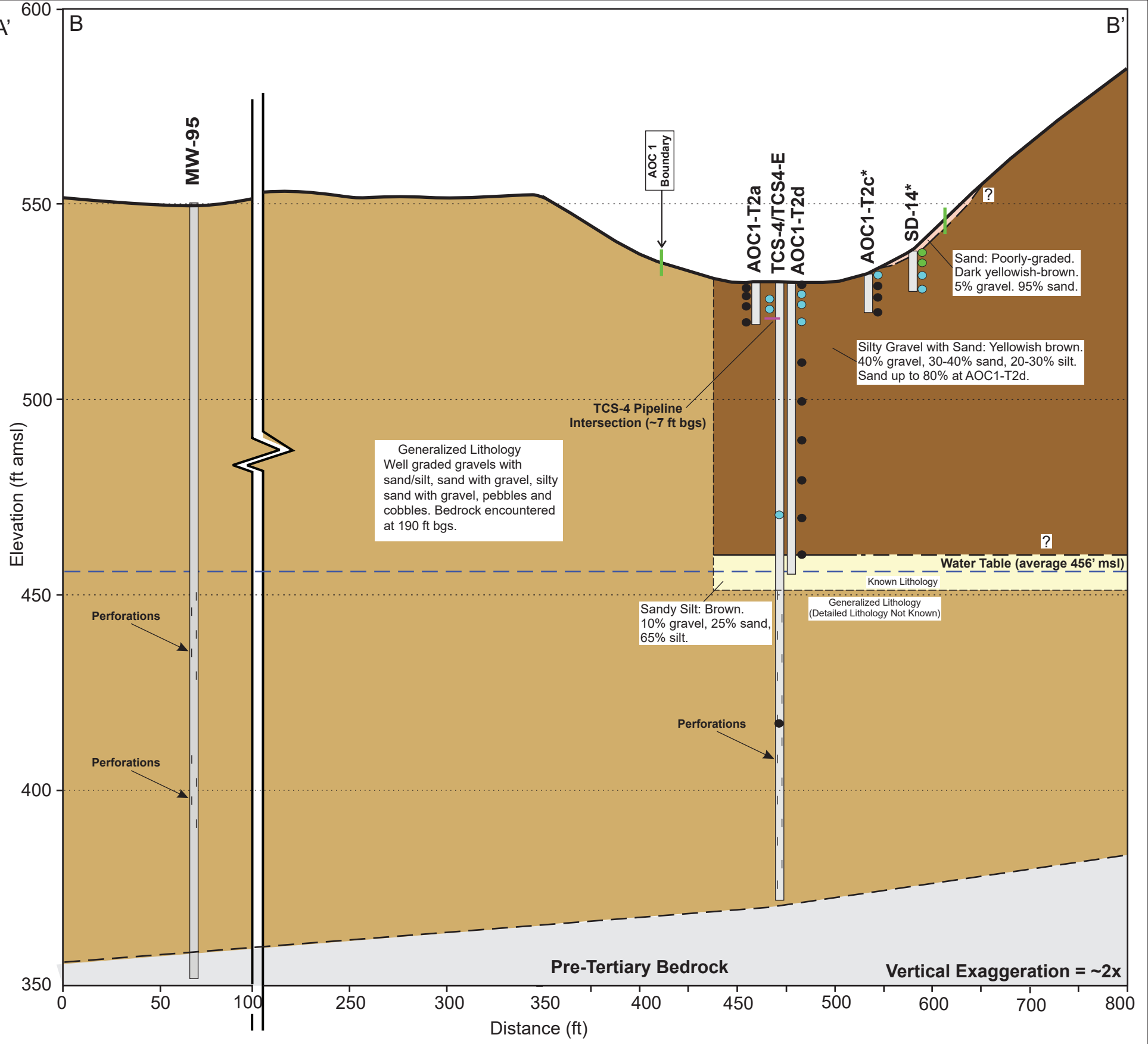
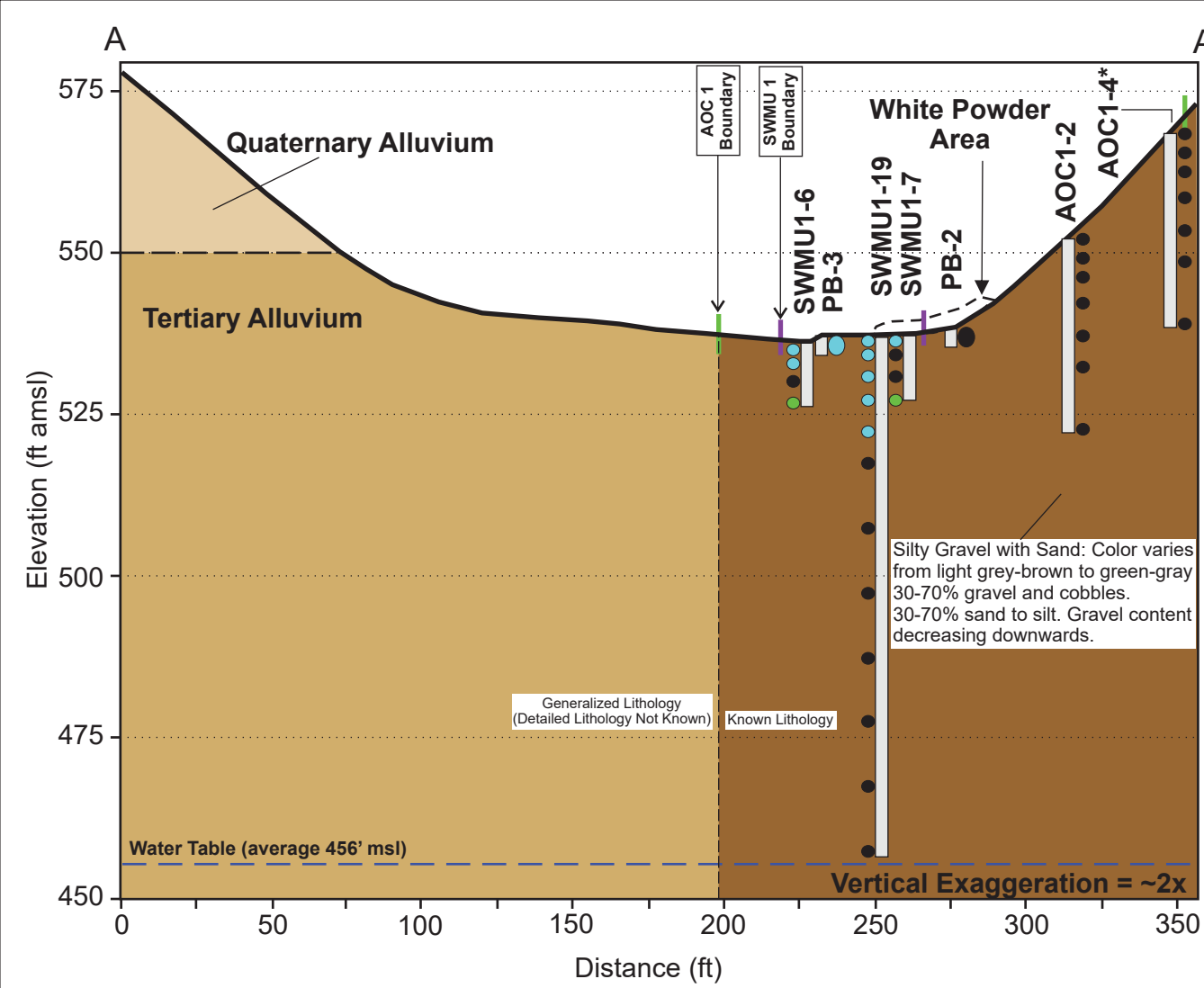
Potential Release Mechanisms

- ➔ Infrequent Surface Water Runoff
- ▭ Infiltration (Site-wide)
- ⊙ Windblown Dispersion of Soil (Site-wide)
- ▭ Volatilization (Site-wide)
- ⊙ Degradation by Heat/Light (Site-wide)
- ▭ Surface Soil Scouring & Redeposition (Possible Throughout the Wash)
- ➔ Downstream Movement During Flow Events
- ➔ Historic Waste Water Flow

Notes:

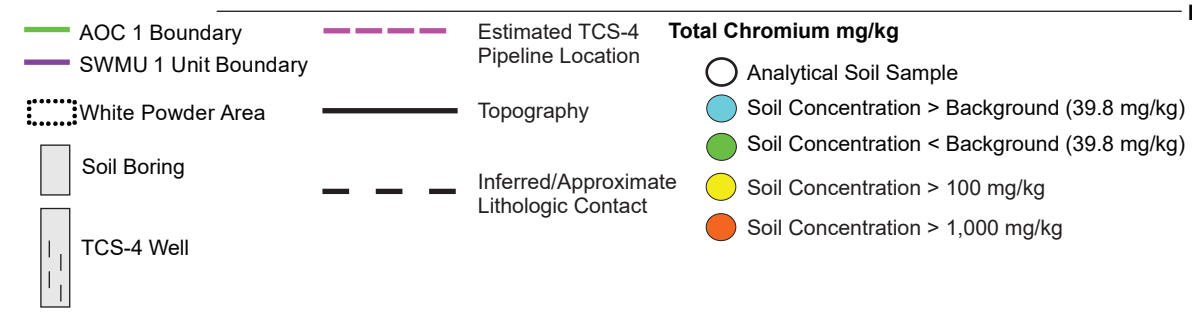
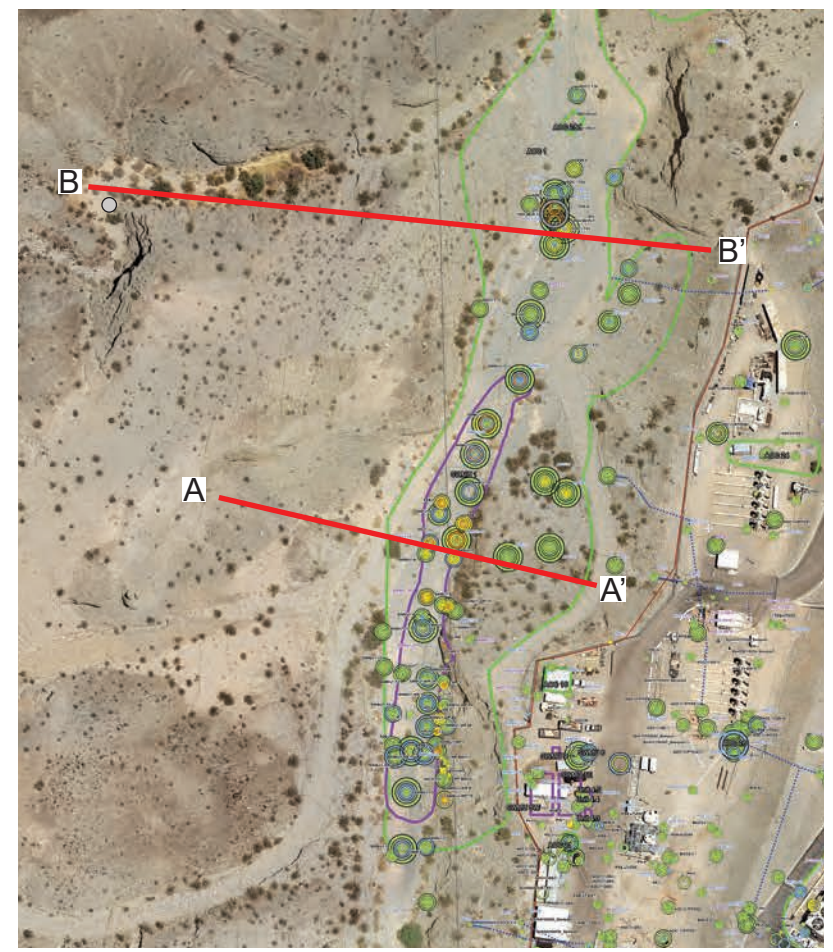
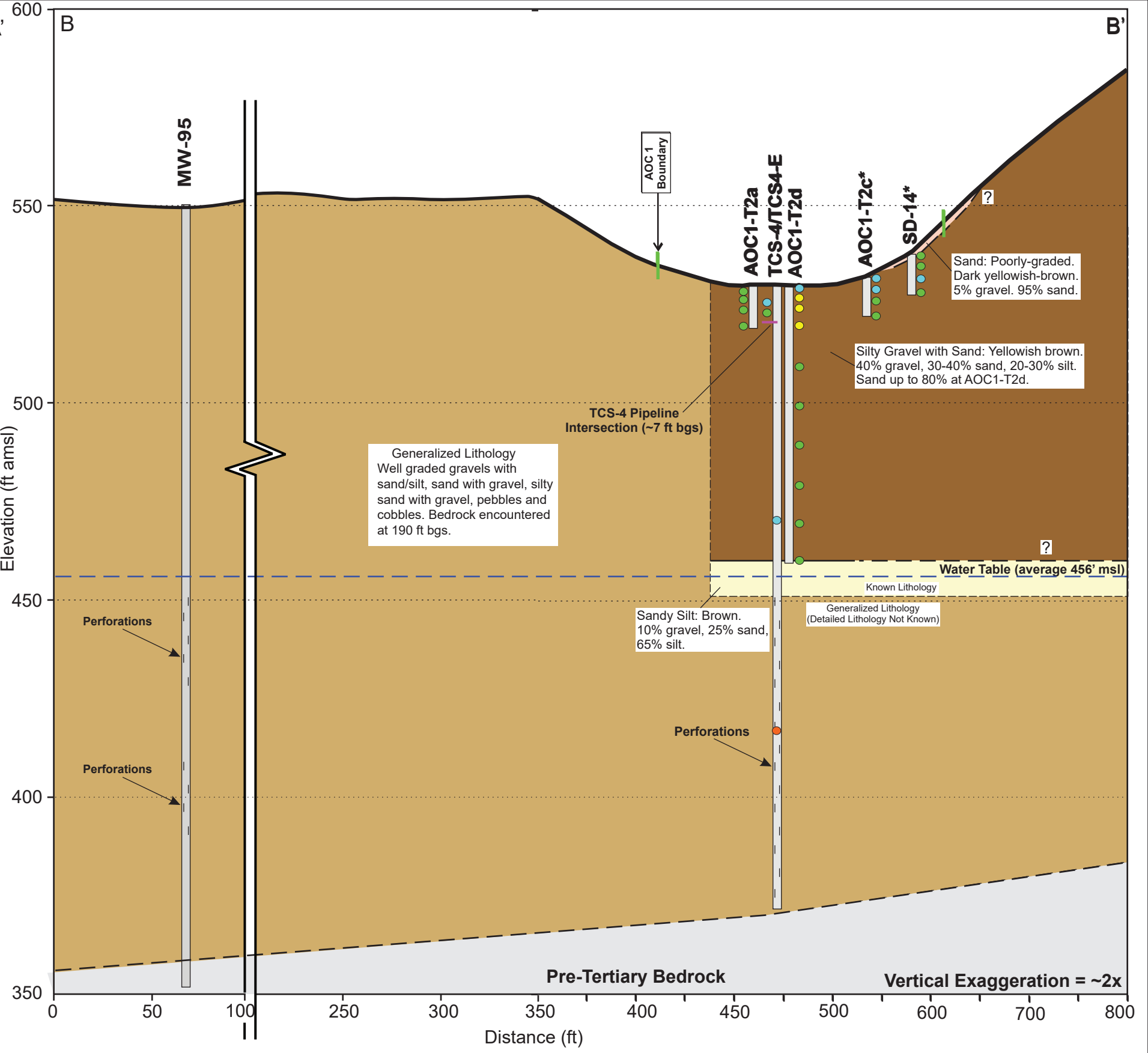
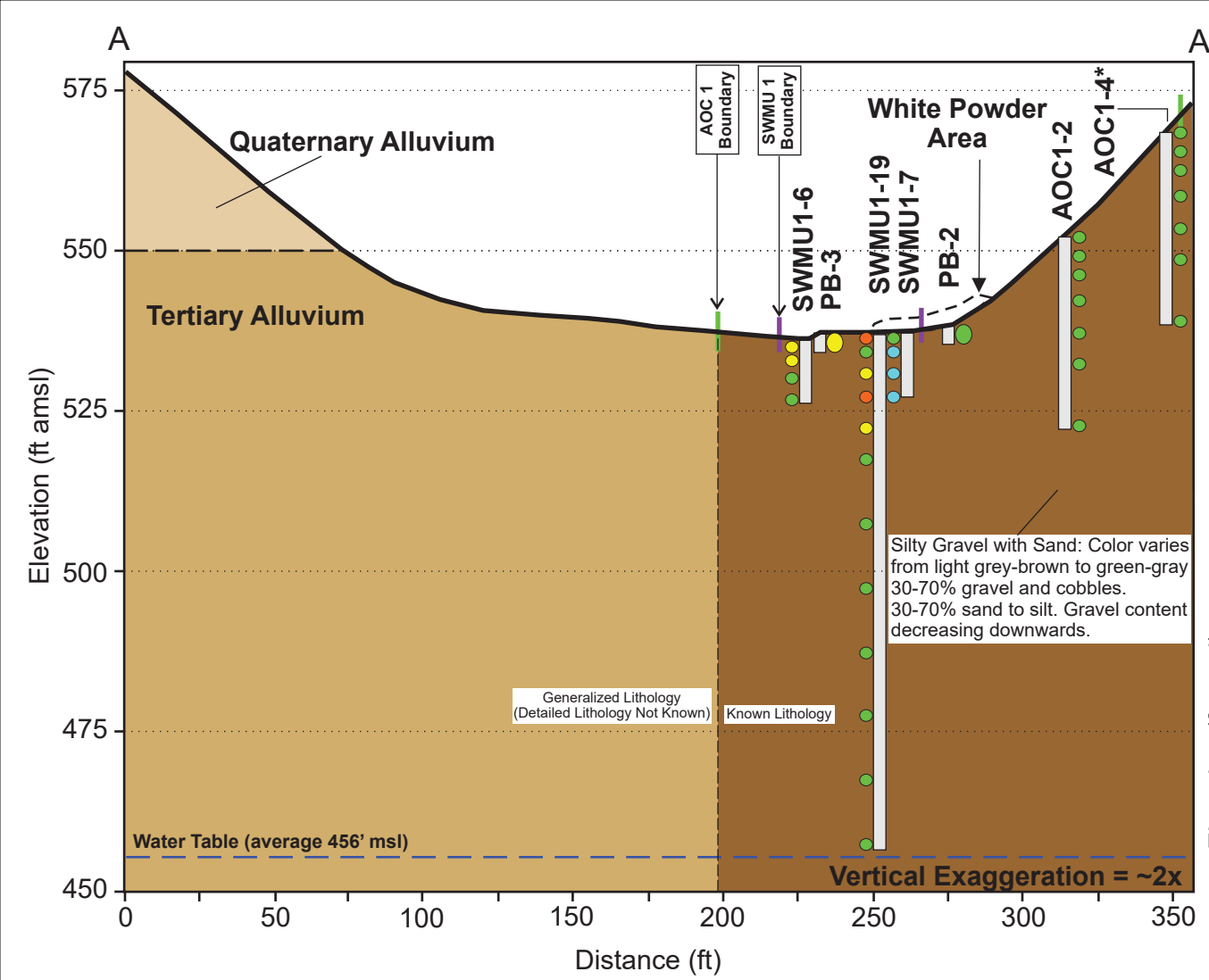
- Block diagram subsurface geology adapted from the Volume 2 RFI/RI (CH2M 2009) and is schematic and not to scale.
- Block diagram topography is estimated.
- Cross-sections A-A' and B-B' can be found on Figure A-5.

Figure 4-1e
Conceptual Site Model Block Diagram
AOC 1/SWMU 1
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



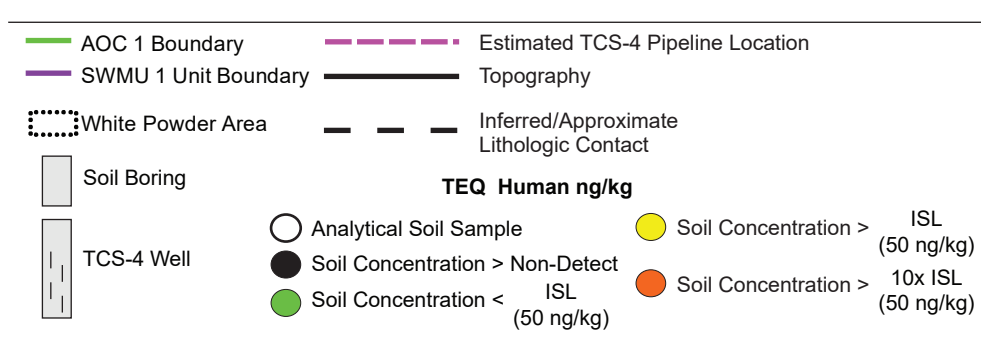
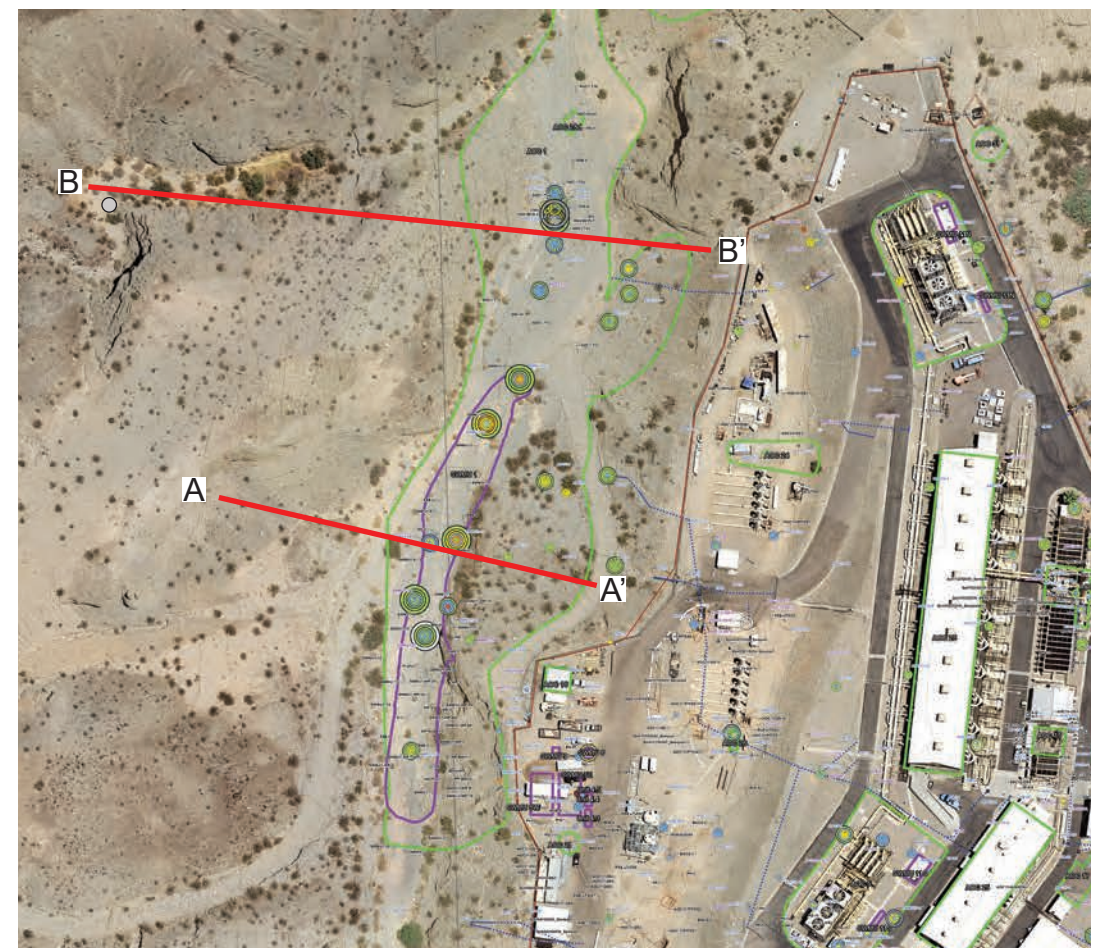
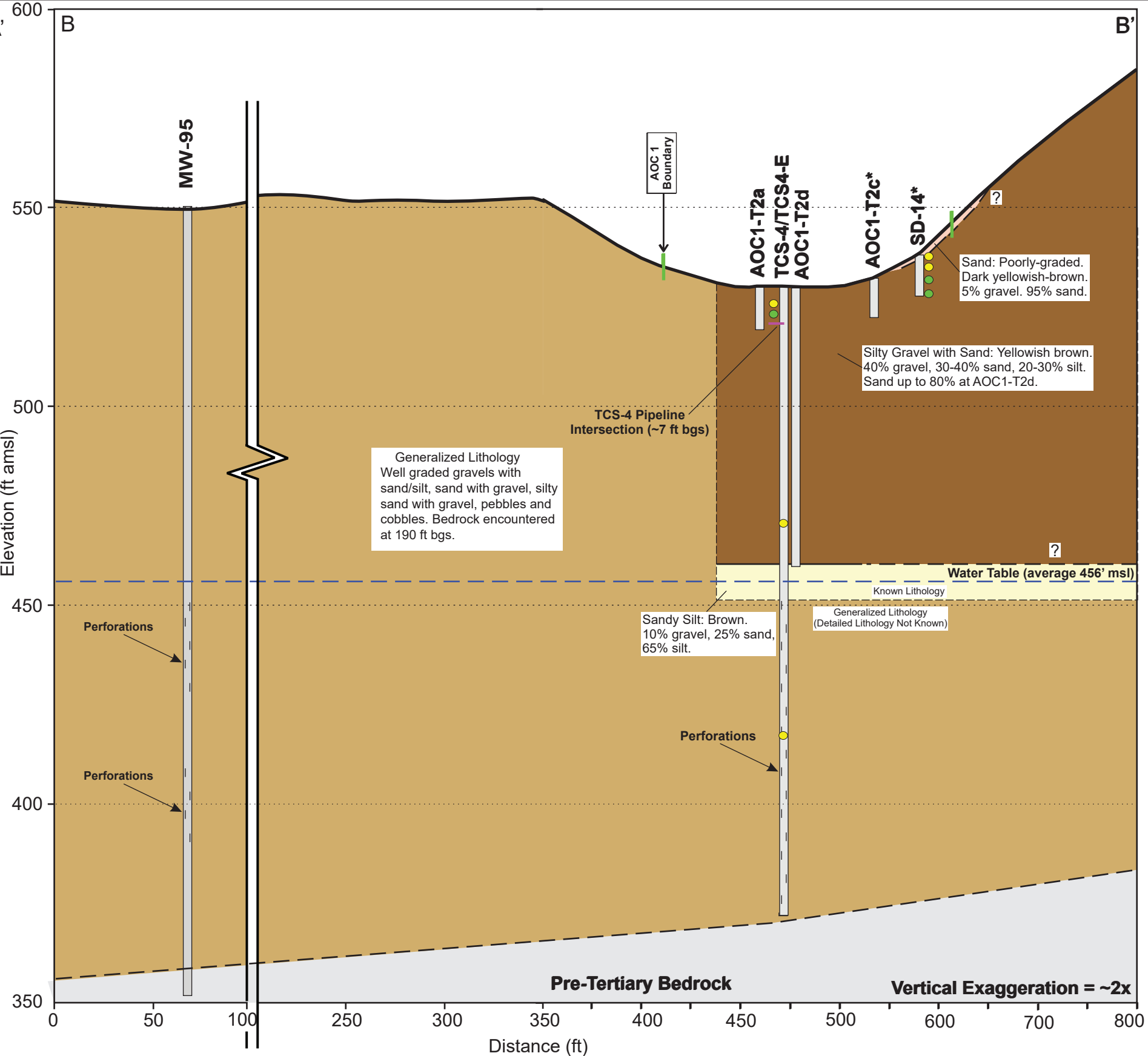
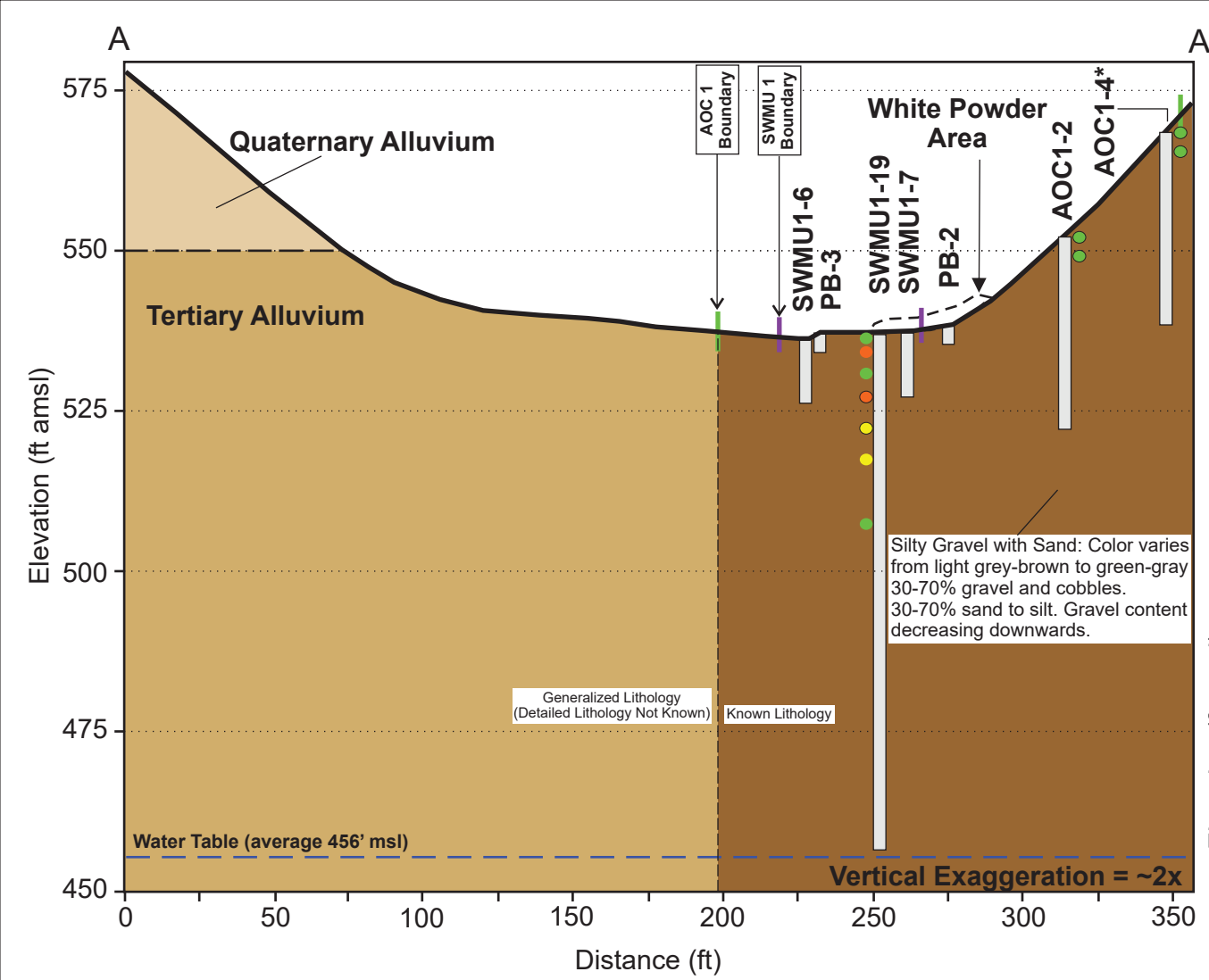
Notes:
 *Samples are offset from transect
 -Due to the data density in Bat Cave Wash, representative samples were chosen to show general subsurface geology and CrVI concentrations in soil.
 -Detailed lithology is shown where information from boring logs is available. Generalized lithology (from RFI/RI Volume 2 Report) is shown where detailed lithology information is not available.

Figure 4-1f
Cross Sections Showing Hexavalent Chromium Results AOC 1/SWMU 1
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



NOTES:
 *Samples are offset from transect
 -Due to the data density in Bat Cave Wash, representative samples were chosen to show general subsurface geology and Total Chromium concentrations in soil.
 -Detailed lithology is shown where information from boring logs is available. Generalized lithology (from RFI/RI Volume 2 Report) is shown where detailed lithology information is not available.

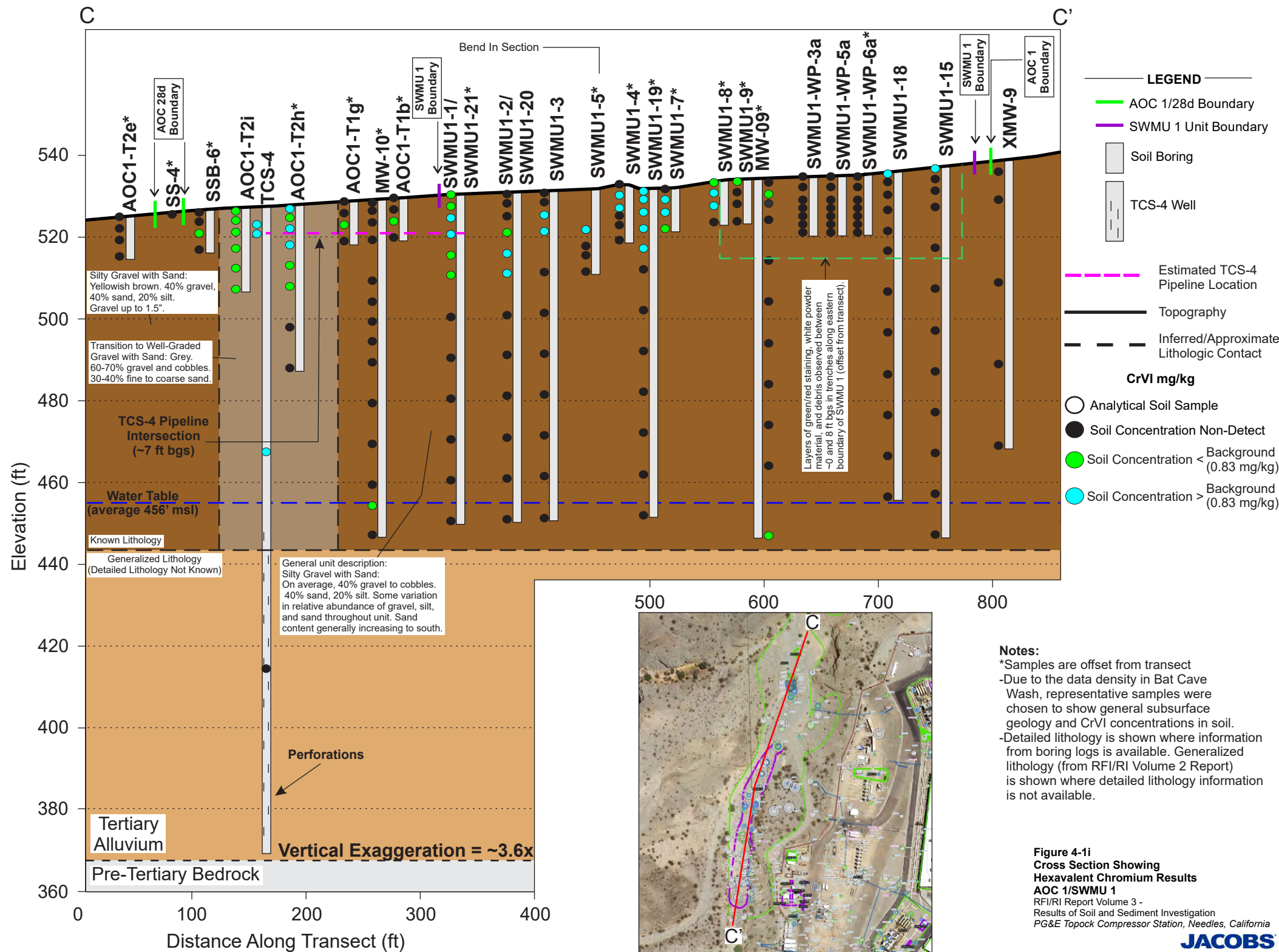
Figure 4-1g
Cross Sections Showing Total Chromium Results AOC 1/SWMU 1
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California

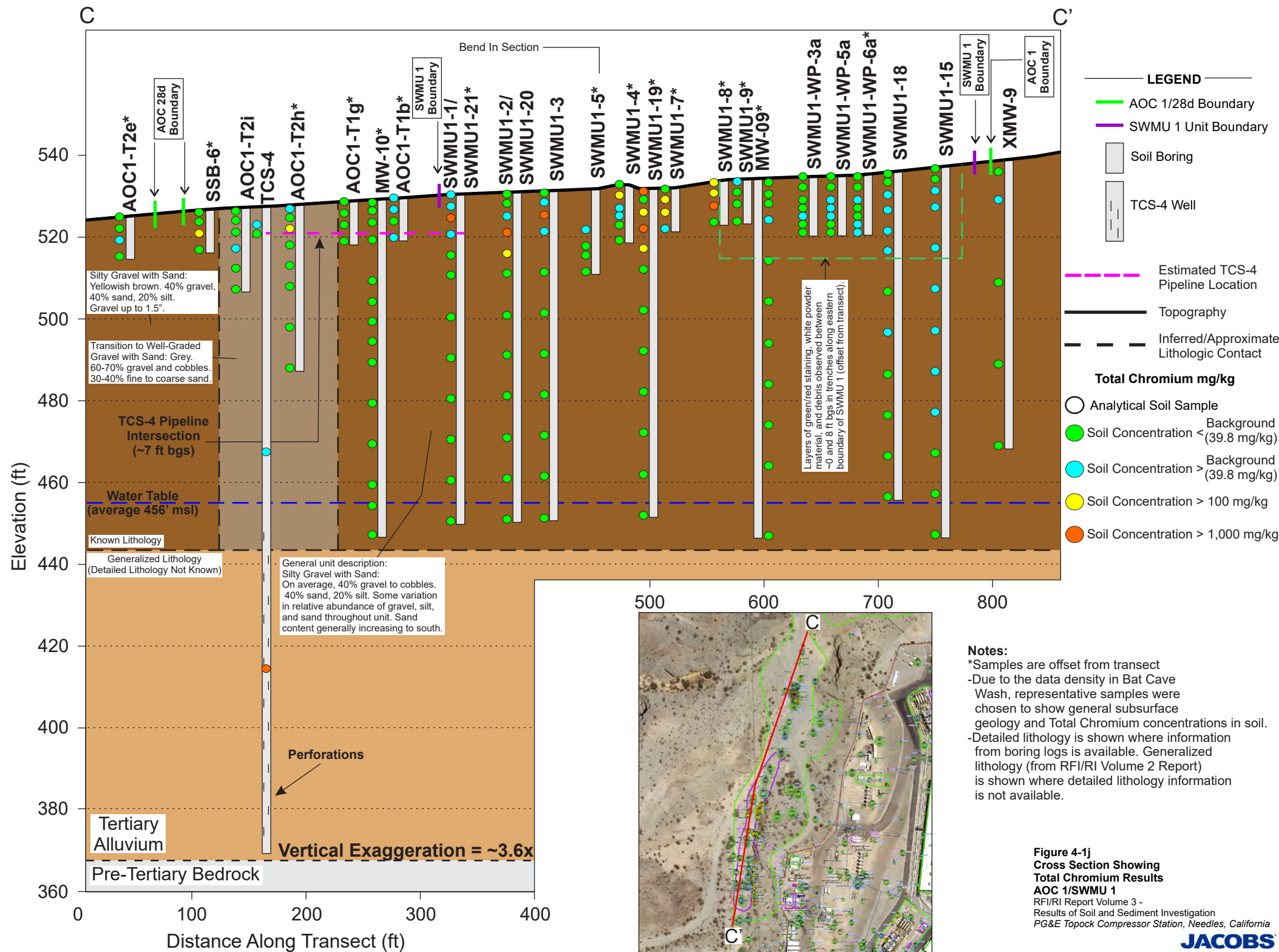


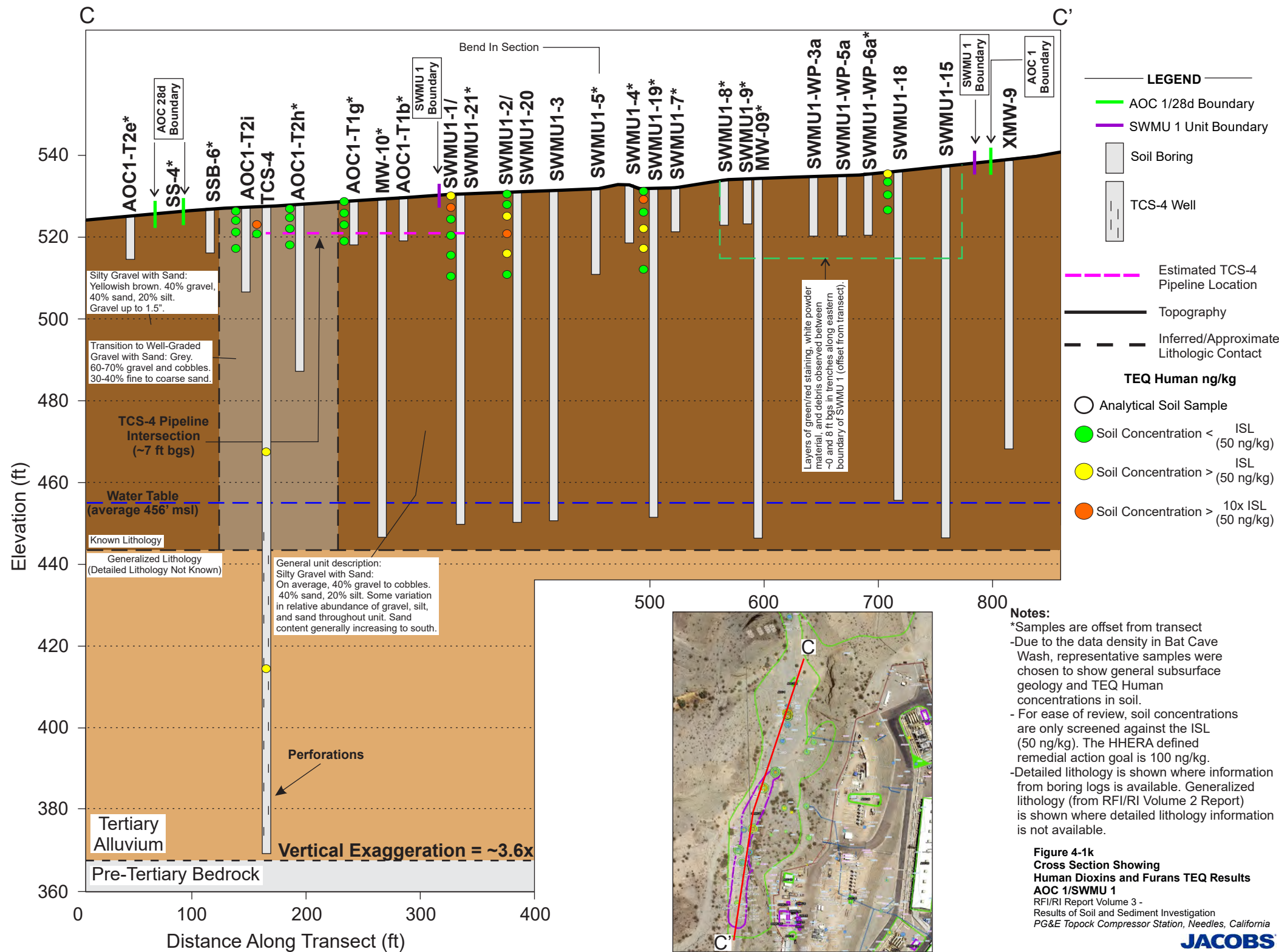
Notes:
 *Samples are offset from transect
 -Due to the data and density in Bat Cave Wash, representative samples were chosen to show general subsurface geology and TEQ Human concentrations in soil.
 -For ease of review, soil concentrations are only screened against the ISL (50 ng/kg). The KKERA defined remedial action goal is 100 ng/kg.

Notes Continued:
 -Detailed Lithology is shown where information from boring logs is available. Generalized lithology (from RDDI/RI Volume 2 report) is shown where detailed lithology information is not available.

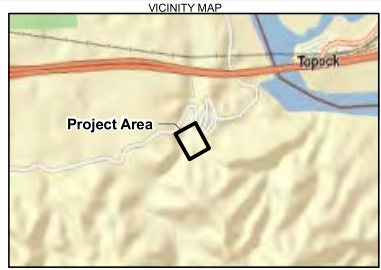
Figure 4-1h
Cross Sections Showing Human Dioxins And Furans TEQ Results AOC 1/SWMU 1
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California







- Potential Human and Ecological Receptors**
- | | |
|--------------------------------|---|
| Human | Ecological |
| -Maintenance/Commercial Worker | -Plants |
| -Long-Term Worker | -Terrestrial Invertebrates |
| -Short-Term Worker | -Representative Small and Large Home Range Wildlife |
| -Recreational User | Birds |
| Camper | Mammals |
| Hiker | |
| Hunter | |
| OHV Rider | |
| -Tribal User | |



LEGEND

- Gabion
- Check Dam
- Approximate Extent of Time-Critical Removal Action
- Potential Burning Related Location

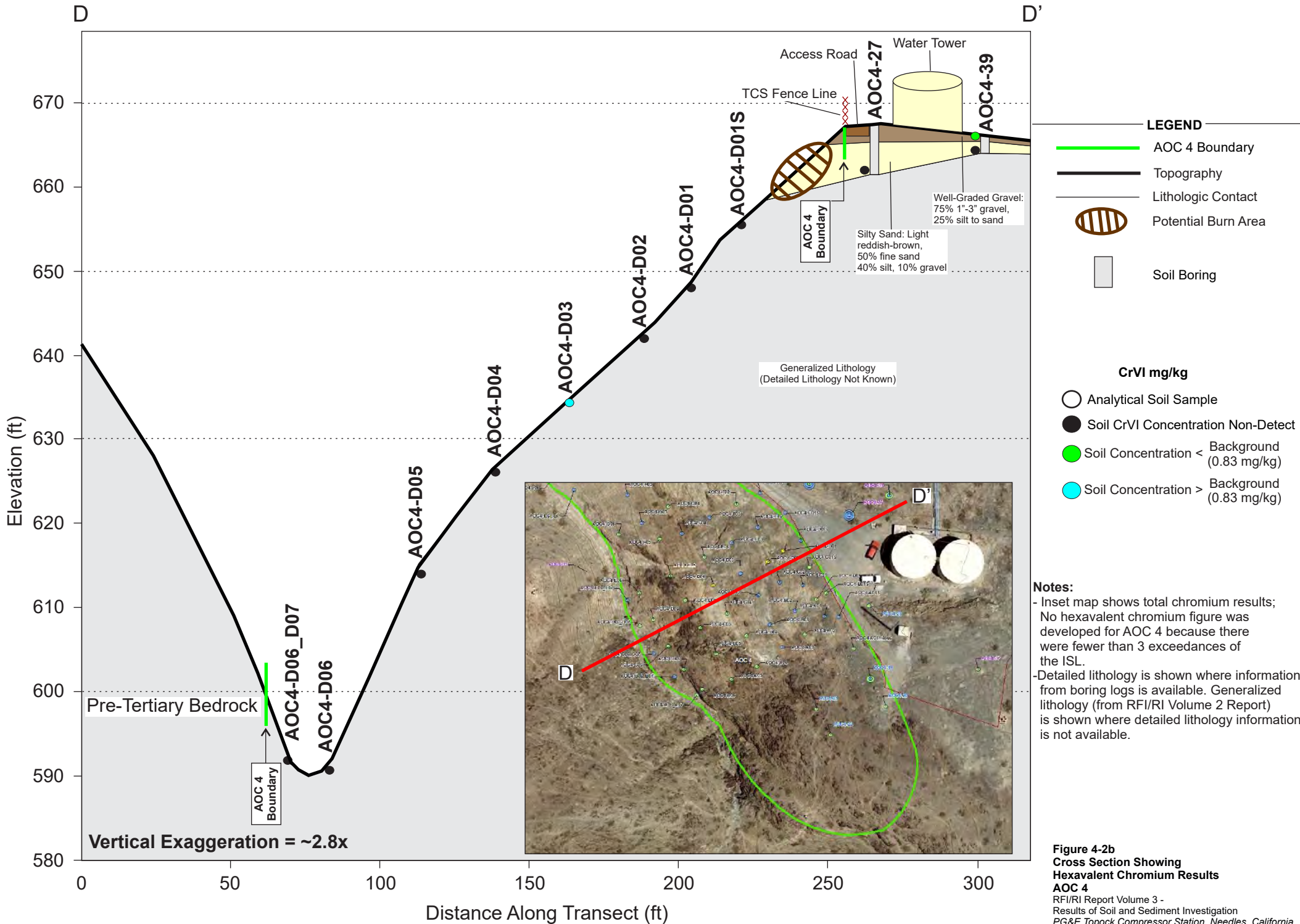
Potential Release Mechanisms

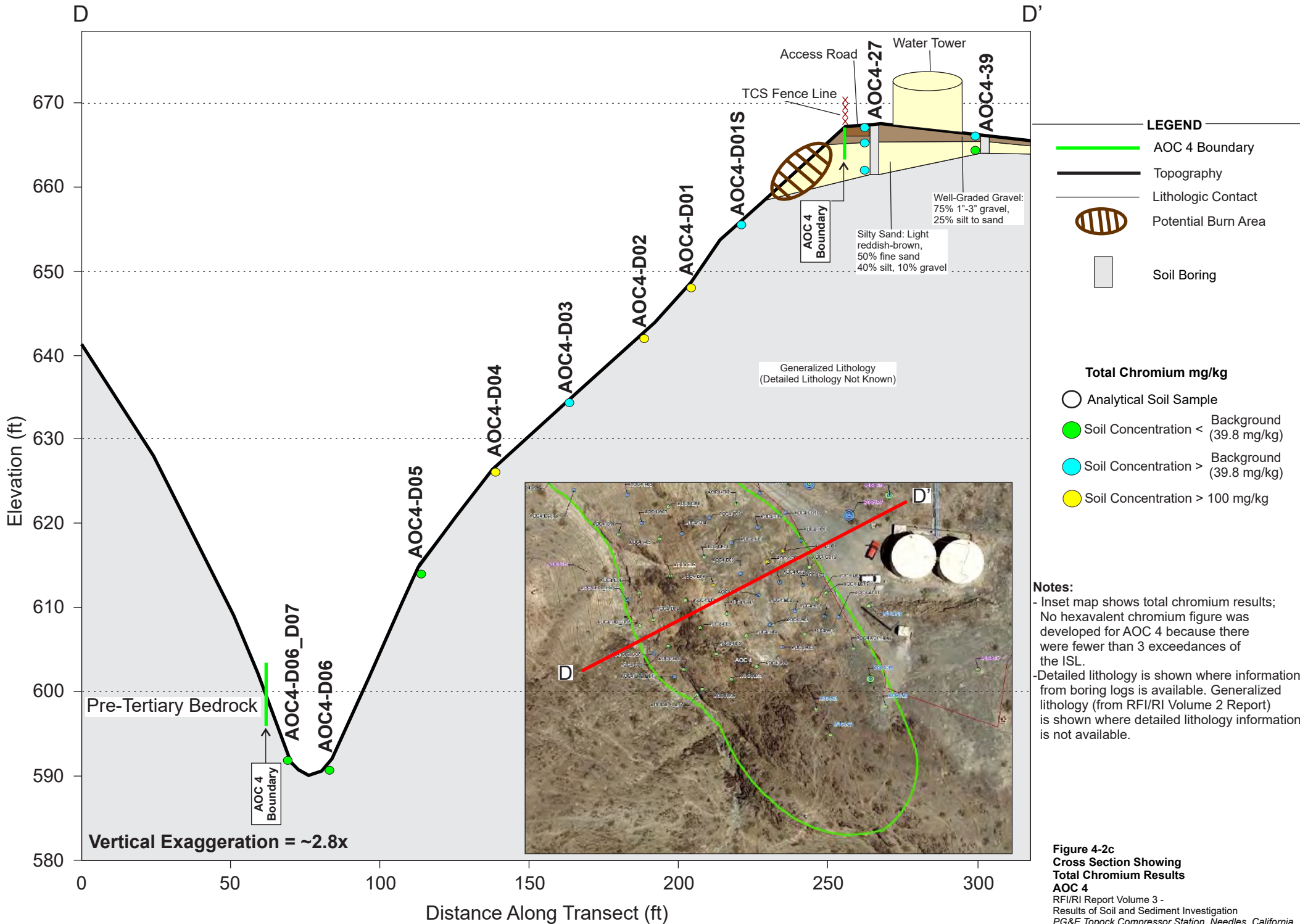
- Infrequent Surface Water Runoff
- Infiltration (Site-wide)
- Windblown Dispersion of Soil (Site-wide)
- Volatilization (Site-wide)
- Degradation by Heat/Light (Site-wide)
- Surface Soil Scouring & Redeposition (Possible Throughout the Wash)
- Downstream Movement During Flow Events

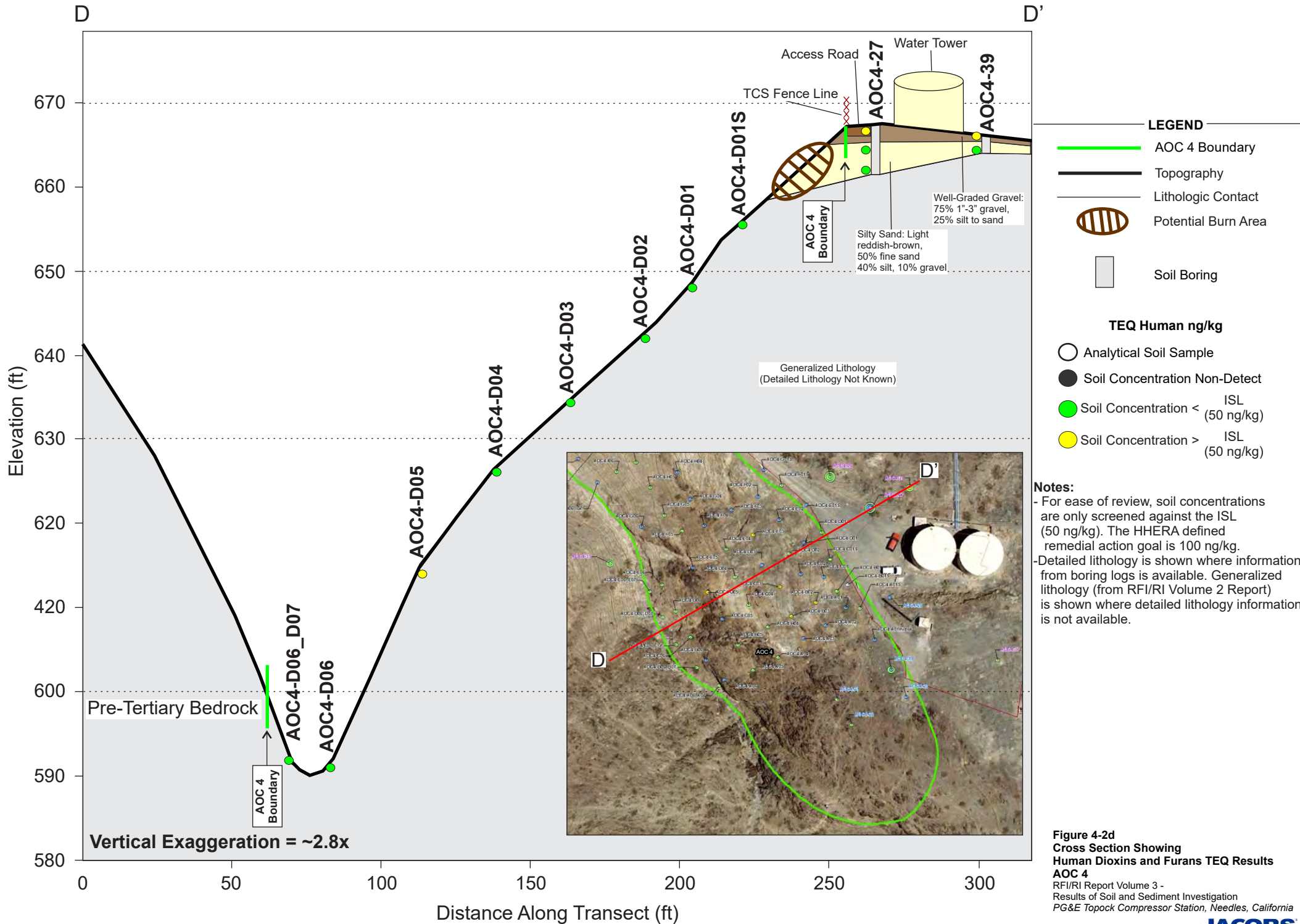
0 25 50 100 Feet

North arrow pointing up.

Figure 4-2a
Conceptual Site Model
AOC 4
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS







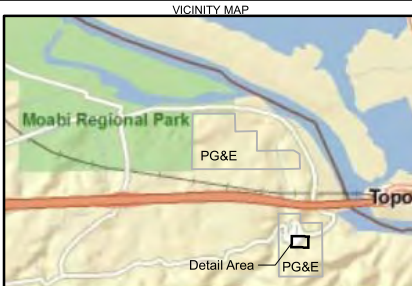
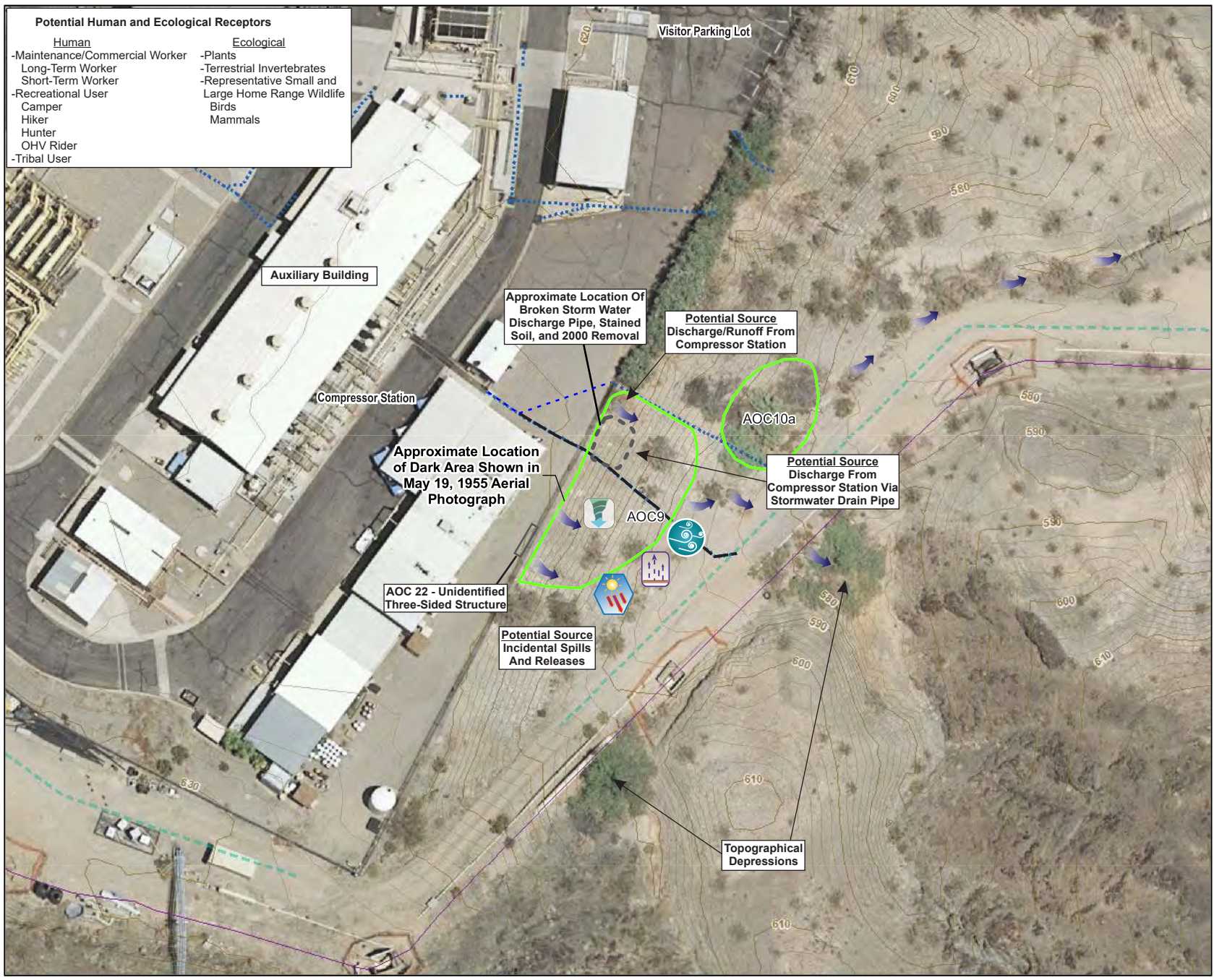
Potential Human and Ecological Receptors

Human

- Maintenance/Commercial Worker
- Long-Term Worker
- Short-Term Worker
- Recreational User
- Camper
- Hiker
- Hunter
- OHV Rider
- Tribal User

Ecological

- Plants
- Terrestrial Invertebrates
- Representative Small and Large Home Range Wildlife
- Birds
- Mammals



LEGEND

- AOC Boundary
- Property Boundary
- PG&E Pipeline
- Stormwater Piping Below Ground (Approximate Location)
- Alternate Stormwater Piping Below Ground (Approximate Location)
- Potential Release Mechanisms**
- Infrequent Surface Water Runoff
- Infiltration (Site-wide)
- Windblown Dispersion of Soil (Site-wide)
- Volatilization (Site-wide)
- Degradation by Heat/Light (Site-wide)

Note:
Topographic contours are shown at 2 foot intervals.

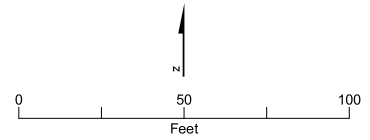
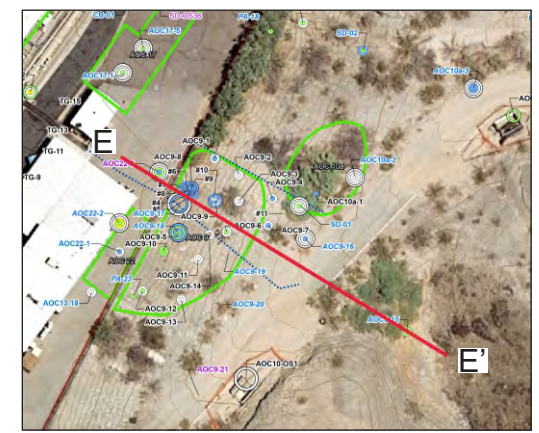
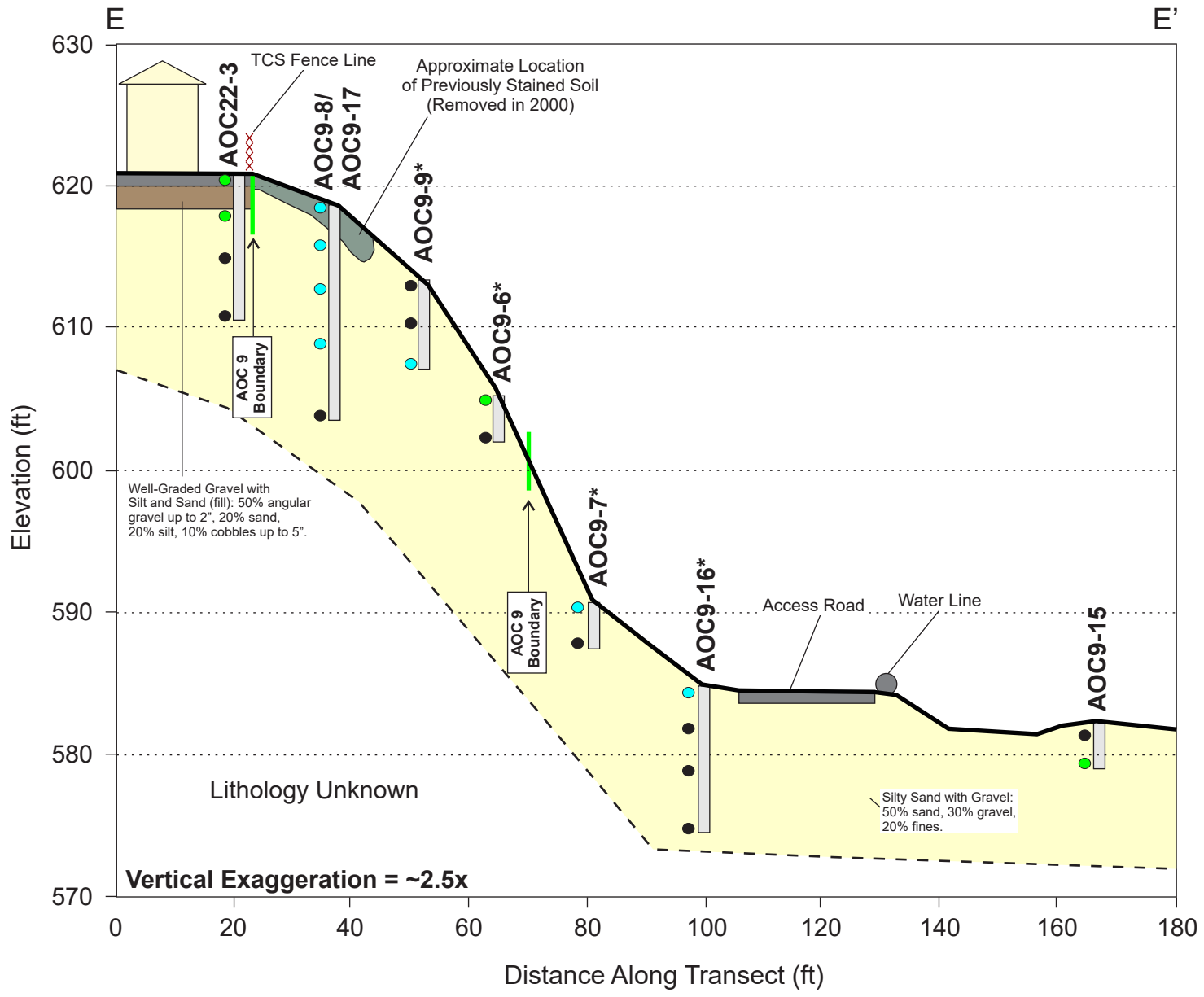


Figure 4-3a
Conceptual Site Model
AOC 9
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California





LEGEND

- AOC 9 Boundary
- Topography
- Inferred Lithologic Contact
- Soil Boring

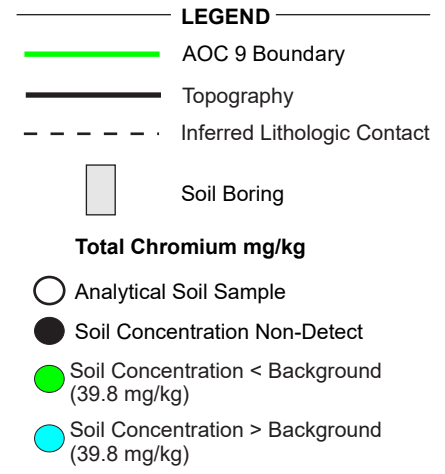
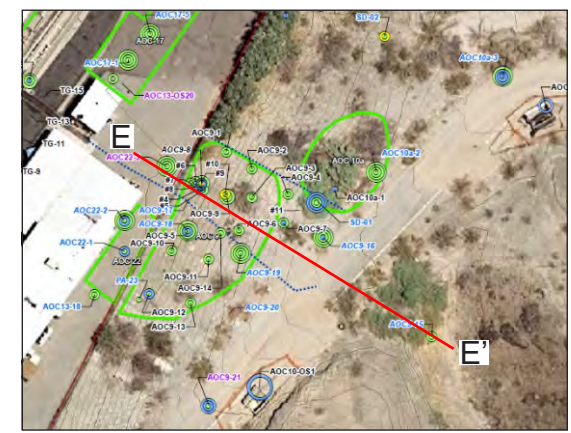
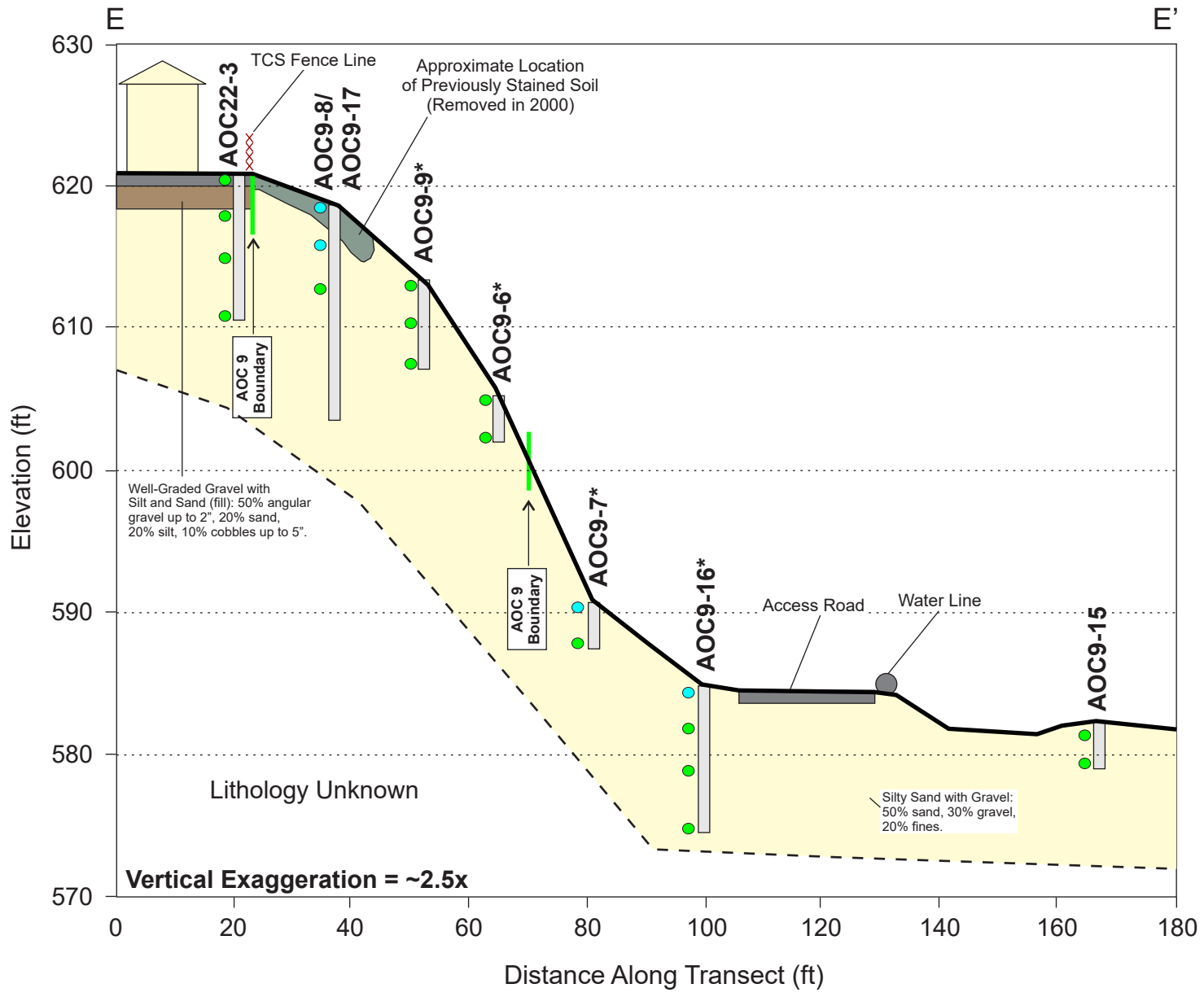
CrVI mg/kg

- Analytical Soil Sample
- Soil CrVI Concentration Non-Detect
- Soil Concentration < Background (0.83 mg/kg)
- Soil Concentration > Background (0.83 mg/kg)

Notes:

- *Samples are offset from transect
- Due to the data density, representative samples were chosen to show general subsurface geology and CrVI concentrations in soil.

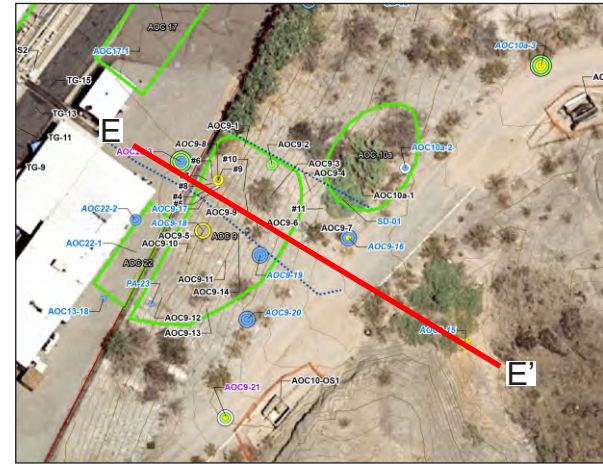
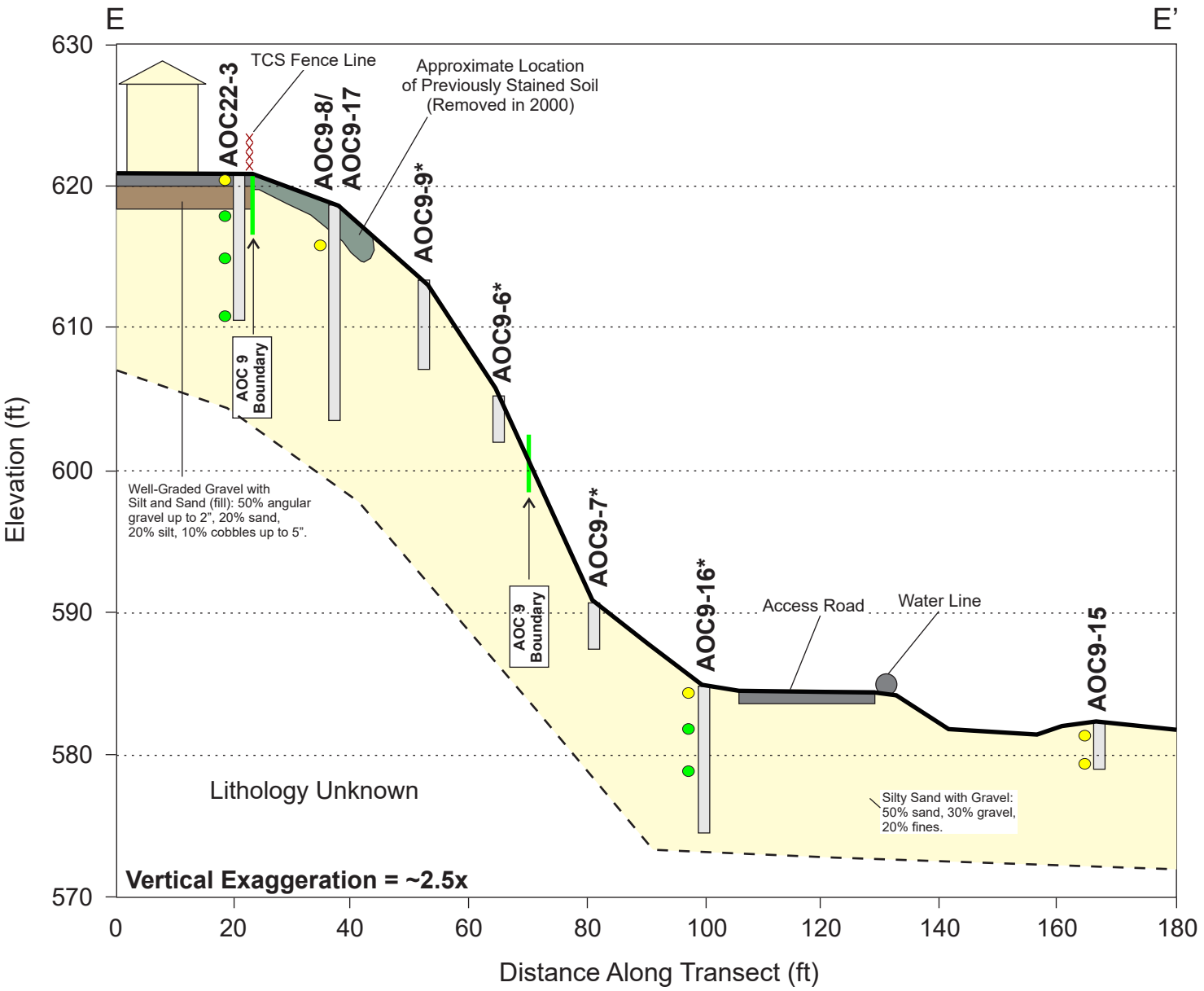
Figure 4-3b
Cross Section Showing Hexavalent Chromium Results
AOC 9
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS



Notes:

- *Samples are offset from transect
- Due to the data density, representative samples were chosen to show general subsurface geology and Total Chromium concentrations in soil.

Figure 4-3c
Cross Section Showing Total Chromium Results AOC 9
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

- AOC 9 Boundary
- Topography
- - - Inferred Lithologic Contact
- Soil Boring

TEQ Human ng/kg

- Analytical Soil Sample
- Soil Concentration Non-Detect
- Soil Concentration < ISL (50 ng/kg)
- Soil Concentration > ISL (50 ng/kg)

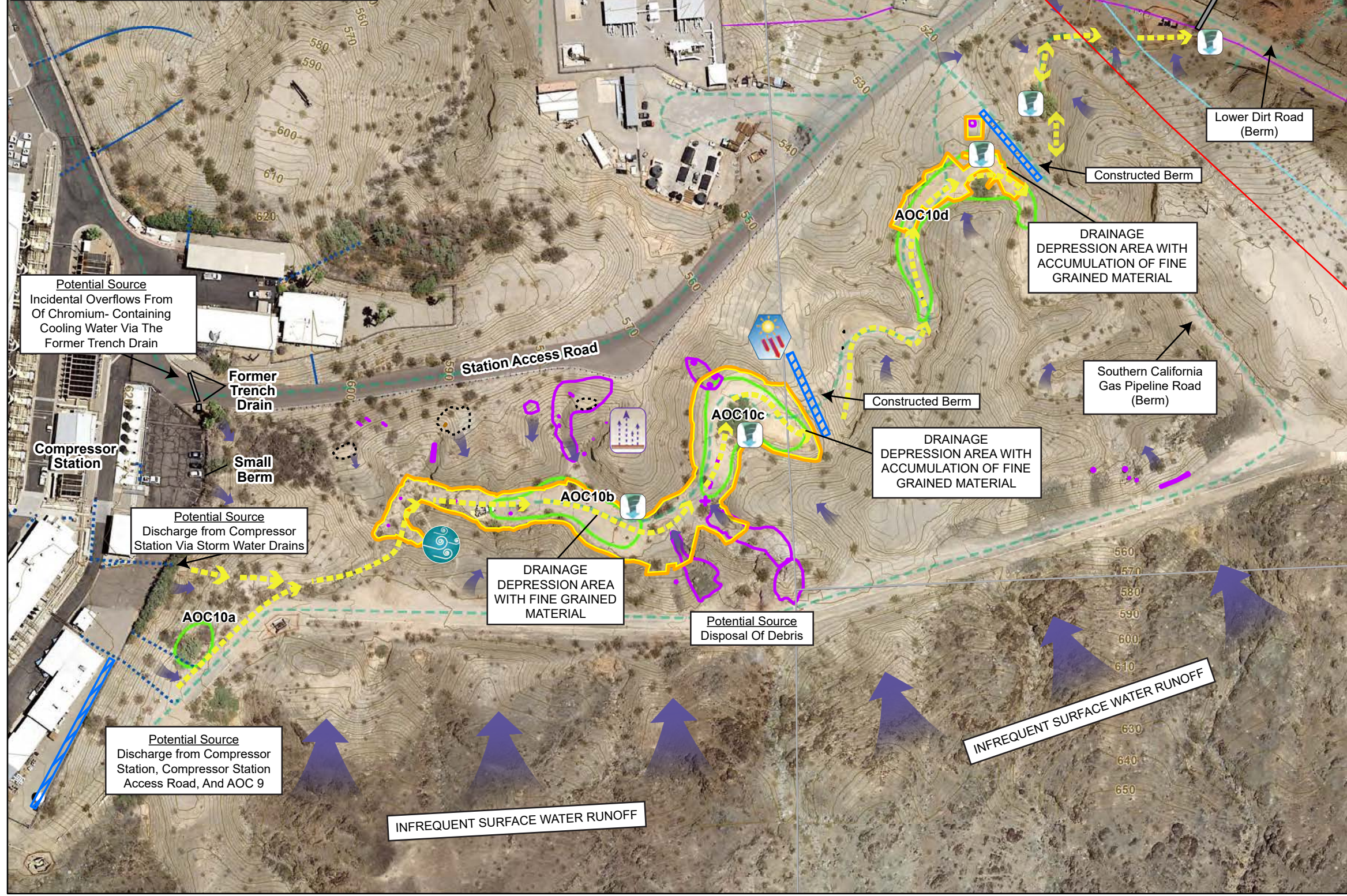
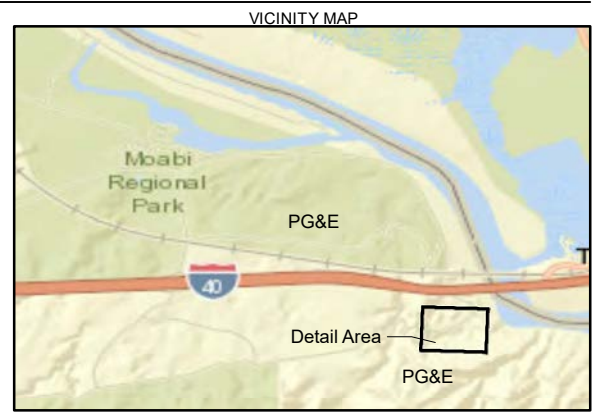
Notes:

- For ease of review, soil concentrations are only screened against the ISL (50 ng/kg). The HHERA defined remedial action goal is 100 ng/kg.

Figure 4-3d
Cross Section Showing Human Dioxins and Furans TEQ Results
AOC 9
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS

Potential Human and Ecological Receptors

Human	Ecological
-Maintenance/Commercial Worker	-Plants
-Long-Term Worker	-Terrestrial Invertebrates
-Short-Term Worker	-Representative Small and Large Home Range Wildlife
-Recreational User	-Birds
-Camper	-Mammals
-Hiker	
-Hunter	
-OHV Rider	
-Tribal User	



LEGEND

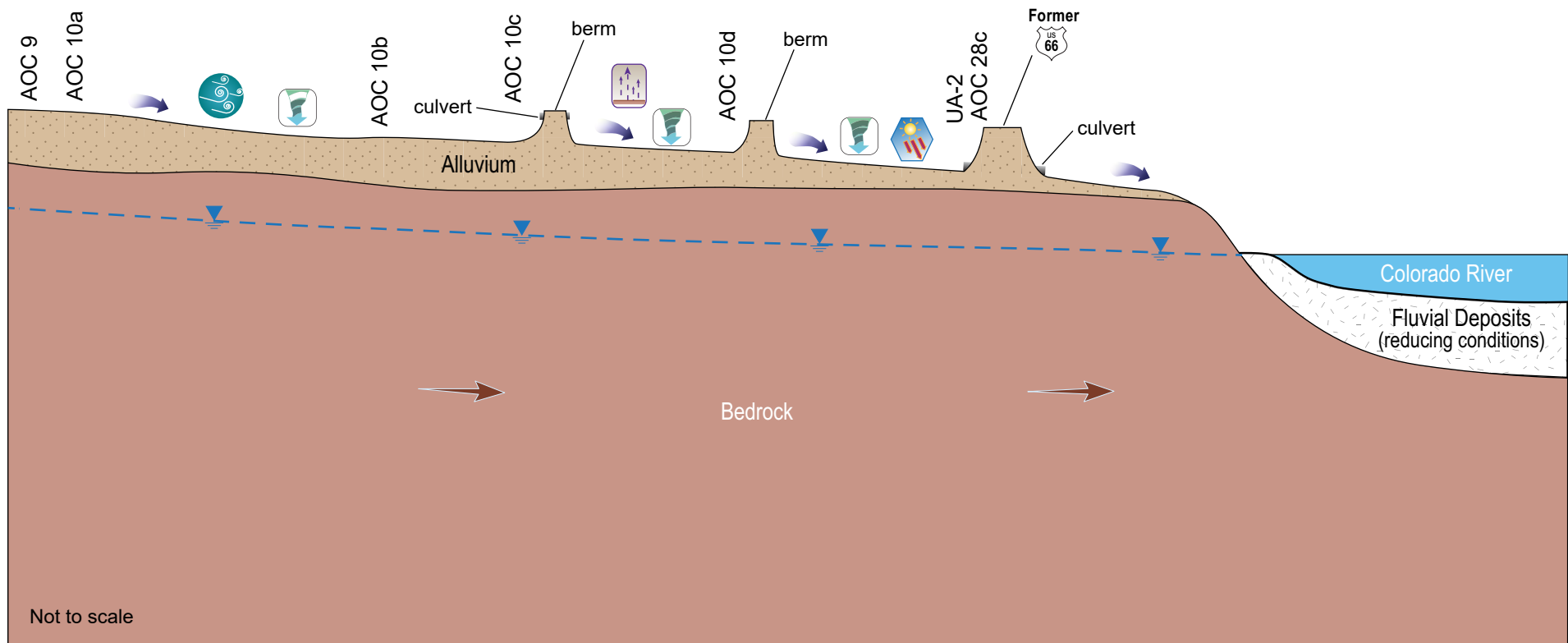
- NTCRA Excavation Area
- AOC Boundary
- Debris Features
- White Powder
- Stained Soil
- Access Routes
- Property Boundary
- Mojave Pipeline
- PG&E Pipeline
- SoCal Gas Pipeline
- Transwestern Pipeline
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground
- Berm

Potential Release Mechanisms

- Infrequent Surface Water Runoff
- Infiltration (Site-wide)
- Windblown Dispersion of Soil (Site-wide)
- Volatilization (Site-wide)
- Degradation by Heat/Light (Site-wide)
- Downstream Movement During Flow Events

Note:
1. Topographic contours shown are at 2 foot intervals

Figure 4-4a
Conceptual Site Model
AOC-10
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



Potential Release Mechanisms








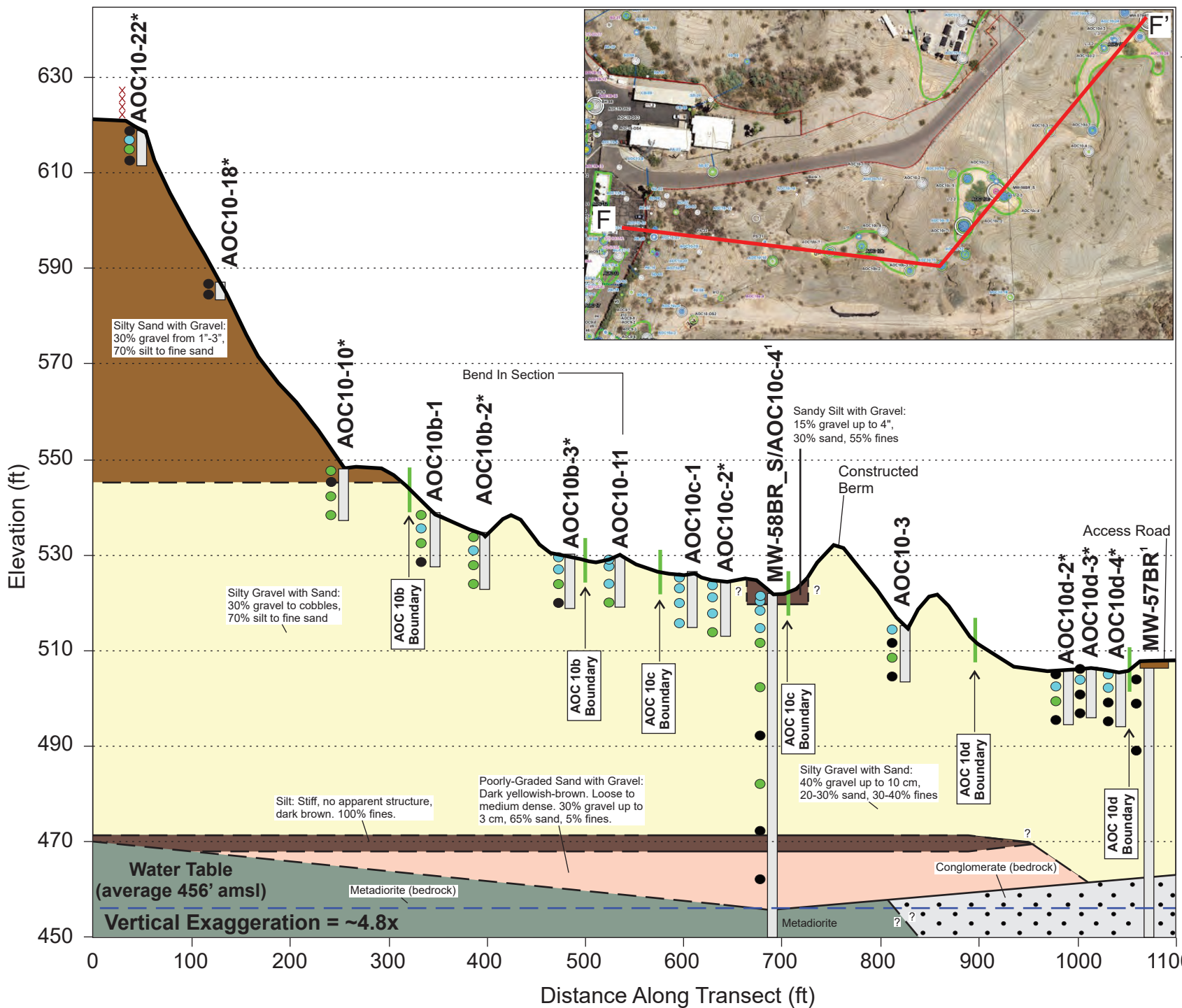
-  Infrequent Surface Water Runoff
-  Infiltration (Site-wide)
-  Windblown Dispersion (Site-wide)
-  Volatilization (Site-wide)
-  Degradation by Heat/Light (Site-wide)
-  Groundwater Flow in Bedrock
-  Top of Groundwater Table

Figure 4-4b
Conceptual Site Model Schematic
Cross Section for the East Ravine
AOC 10
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS

F

F'



LEGEND

- AOC Boundary
- Topography
- Known Lithologic Contact
- - - Inferred Lithologic Contact
- Debris Feature
- Soil Boring
- Compressor Station Fence Line

CrVI mg/kg

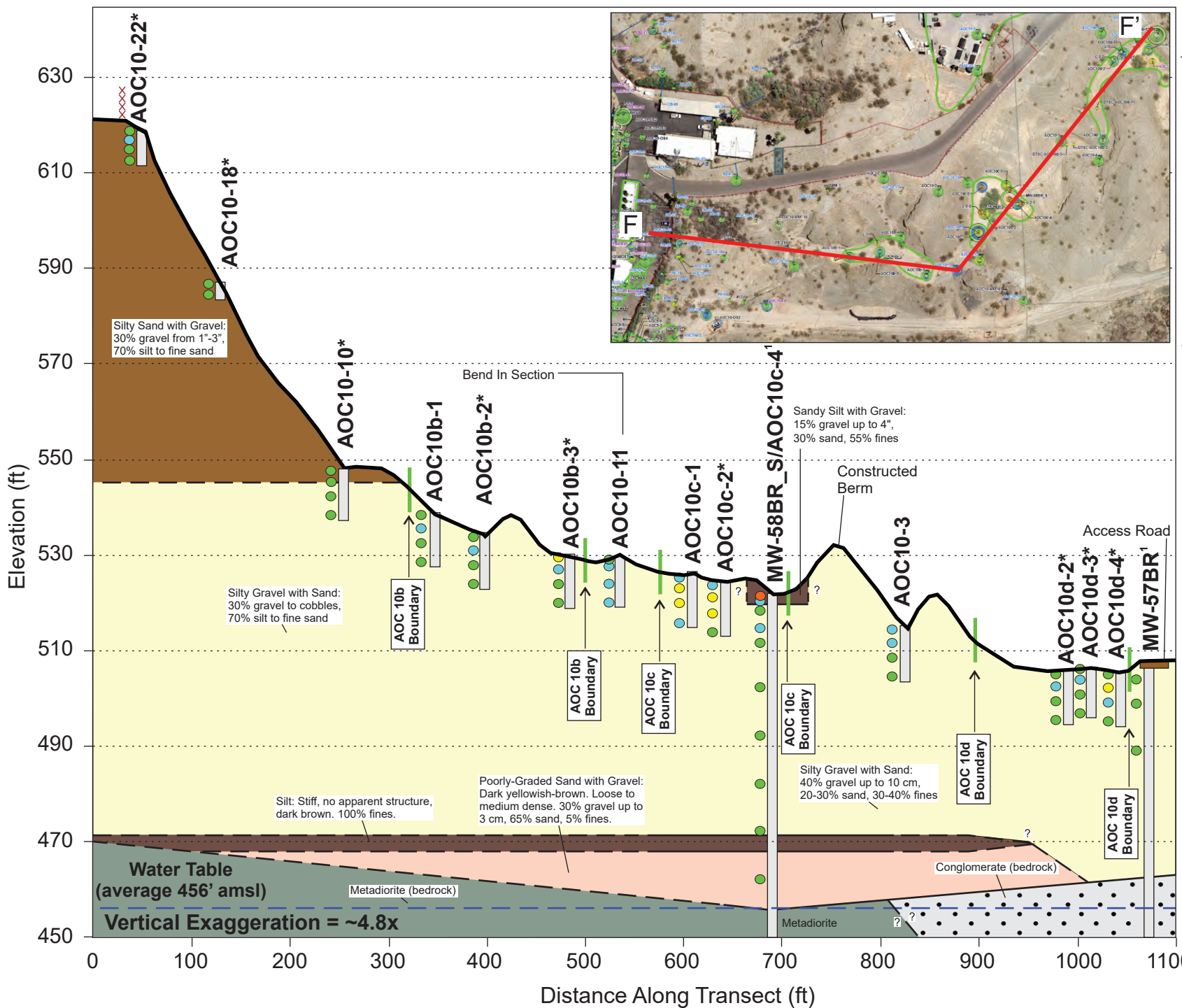
- Analytical Soil Sample
- Soil Concentration Non-Detect
- Soil Concentration < Background (0.83 mg/kg)
- Soil Concentration > Background (0.83 mg/kg)

Notes:
 *Samples are offset from transect
 †Borings MW-58BR_S and MW-57BR were advanced through bedrock to 206 ft bgs and 192 ft bgs respectively.
 -Due to the data density, representative samples were chosen to show general subsurface geology and CrVI concentrations in soil.
 -Detailed lithology is shown where information from boring logs is available.

Figure 4-4c
Cross Section Showing Hexavalent Chromium Results AOC 10
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California

F

F'



LEGEND

- AOC Boundary
- Topography
- Known Lithologic Contact
- - - Inferred Lithologic Contact
- ⊕ Debris Feature
- Soil Boring
- ⊗ Compressor Station Fence Line

Total Chromium mg/kg

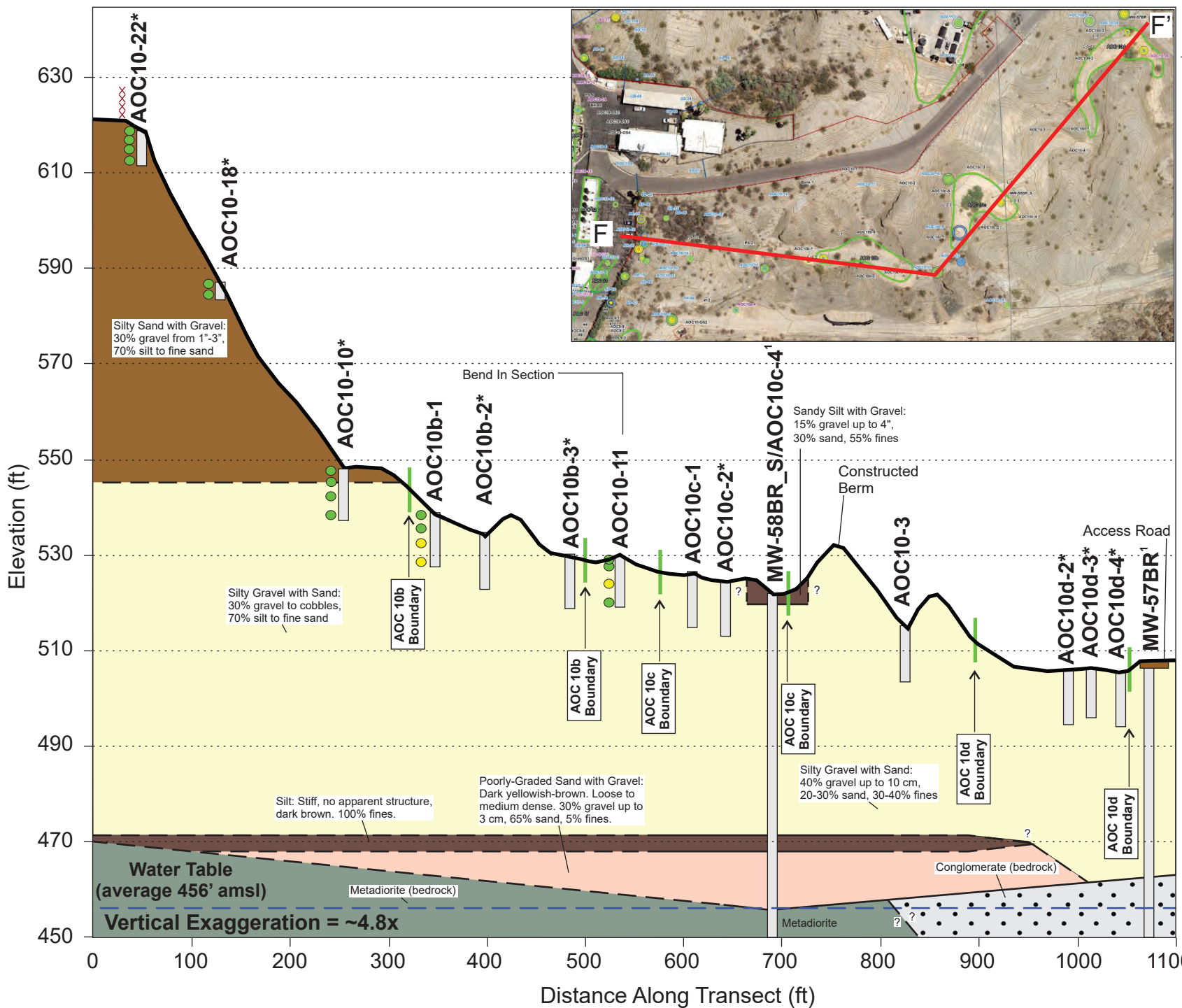
- Analytical Soil Sample
- Soil Concentration > Background (39.8 mg/kg)
- Soil Concentration < Background (39.8 mg/kg)
- Soil Concentration > 100 mg/kg
- Soil Concentration > 1,000 mg/kg

Notes:
 *Samples are offset from transect
 †Borings MW-58BR_S and MW-57BR were advanced through bedrock to 206 ft bgs and 192 ft bgs respectively.
 -Due to the data density, representative samples were chosen to show general subsurface geology and CrVI concentrations in soil.
 -Detailed lithology is shown where information from boring logs is available.

Figure 4-4d
Cross Section Showing
Total Chromium Results
AOC 10
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California

F

F'



LEGEND

- AOC Boundary
- Topography
- Known Lithologic Contact
- - - Inferred Lithologic Contact
- ⊕ Debris Feature
- Soil Boring
- ⊗ Compressor Station Fence Line

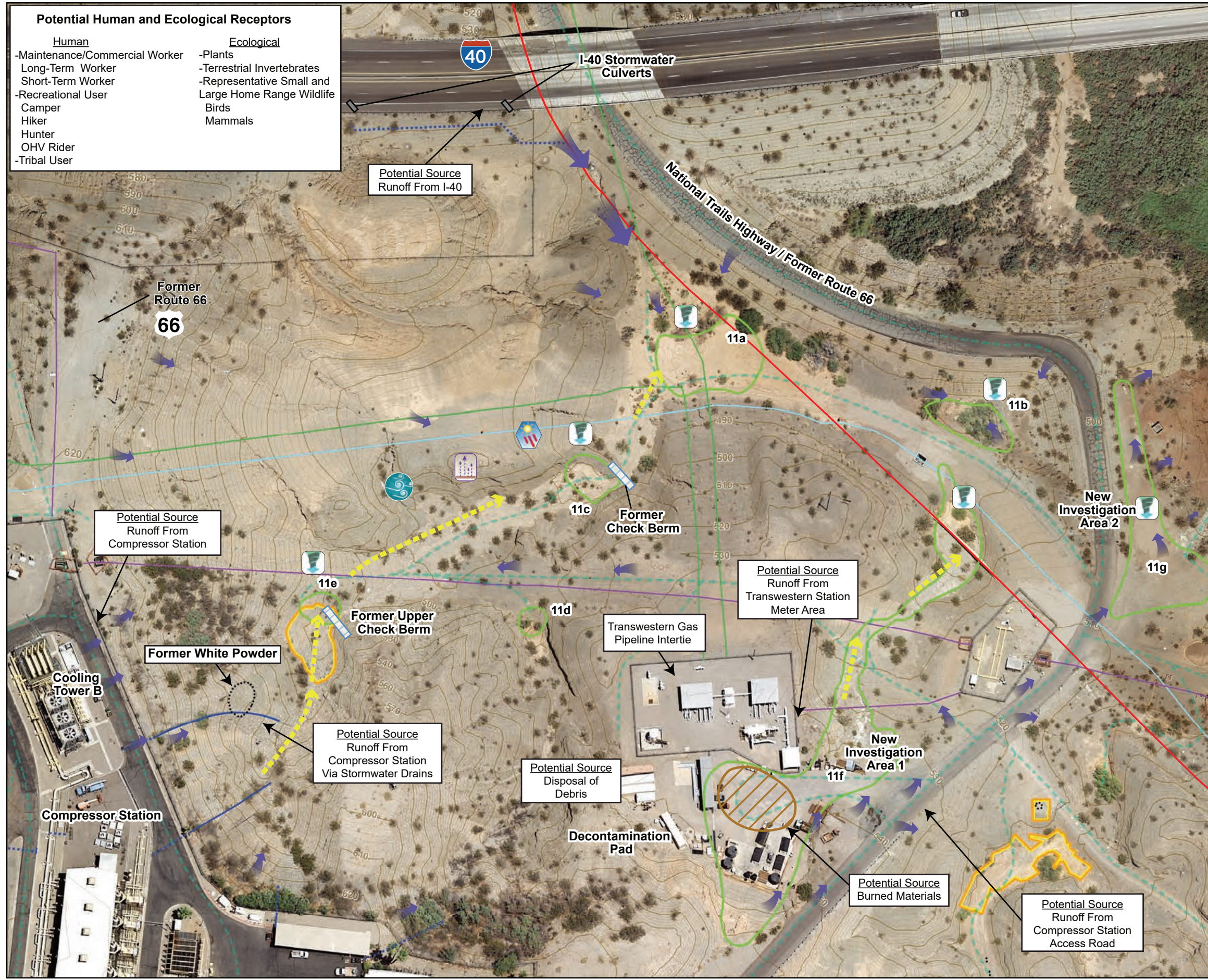
TEQ Human ng/kg

- Analytical Soil Sample
- Soil Concentration < ISL (50 ng/kg)
- Soil Concentration > ISL (50 ng/kg)

Notes:

- For ease of review, soil concentrations are only screened against the ISL (50 ng/kg). The HHERA defined remedial action goal is 100 ng/kg.
- Detailed lithology is shown where information from boring logs is available.

Figure 4-4e
Cross Section Showing Human Dioxins and Furans TEQ Results AOC 10
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



Potential Human and Ecological Receptors

Human	Ecological
-Maintenance/Commercial Worker	-Plants
-Long-Term Worker	-Terrestrial Invertebrates
-Short-Term Worker	-Representative Small and Large Home Range Wildlife
-Recreational User	-Birds
-Camper	-Mammals
-Hiker	
-Hunter	
-OHV Rider	
-Tribal User	



LEGEND

- NTCRA Excavation Area
- Fire Training Area
- Access Routes
- Area of Concern
- White Powder
- Mojave Pipeline
- PG&E Pipeline
- SoCal Gas Pipeline
- Transwestern Pipeline
- Approximate Location of Stormwater Piping Below Ground
- Approximate Location of Stormwater Piping Above Ground

Potential Release Mechanisms

- Infrequent Surface Water Runoff
- Infiltration (Site-wide)
- Windblown Dispersion of Soil (Site-wide)
- Volatilization (Site-wide)
- Degradation by Heat/Light (Site-wide)
- Downstream Movement During Flow Events

0 50 100 200 Feet

Note:
1. Topographic contours shown are in 2 foot intervals.

Figure 4-5
Conceptual Site Model
AOC-11
RFI/RI Report, Volume 3 –
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California

Potential Human and Ecological Receptors

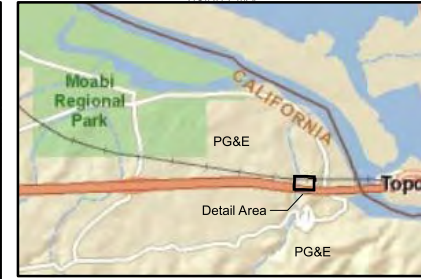
Human

- Maintenance/Commercial Worker
- Long-Term Worker
- Short-Term Worker
- Recreational User
- Camper
- Hiker
- Hunter
- OHV Rider
- Tribal User

Ecological

- Plants
- Terrestrial Invertebrates
- Representative Small and Large Home Range Wildlife
- Birds
- Mammals

VICINITY MAP



LEGEND

- Debris Features
- Former Disposal/Burning Area
- AOC 14 Boundary
- Approximate location of White Powder (Line Sludge at Ground Surface)
- Property Boundary
- PG&E Pipeline

Potential Release Mechanisms

- Infrequent Surface Water Runoff
- Infiltration (Site-wide)
- Windblown Dispersion of Soil (Site-wide)
- Volatilization (Site-wide)
- Degradation by Heat/Light (Site-wide)
- Hypothetical Downstream Movement During Flow Events

Note:
1. Topographic contours are shown at 2 foot intervals.

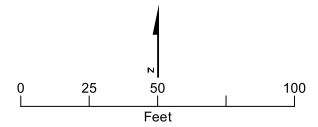
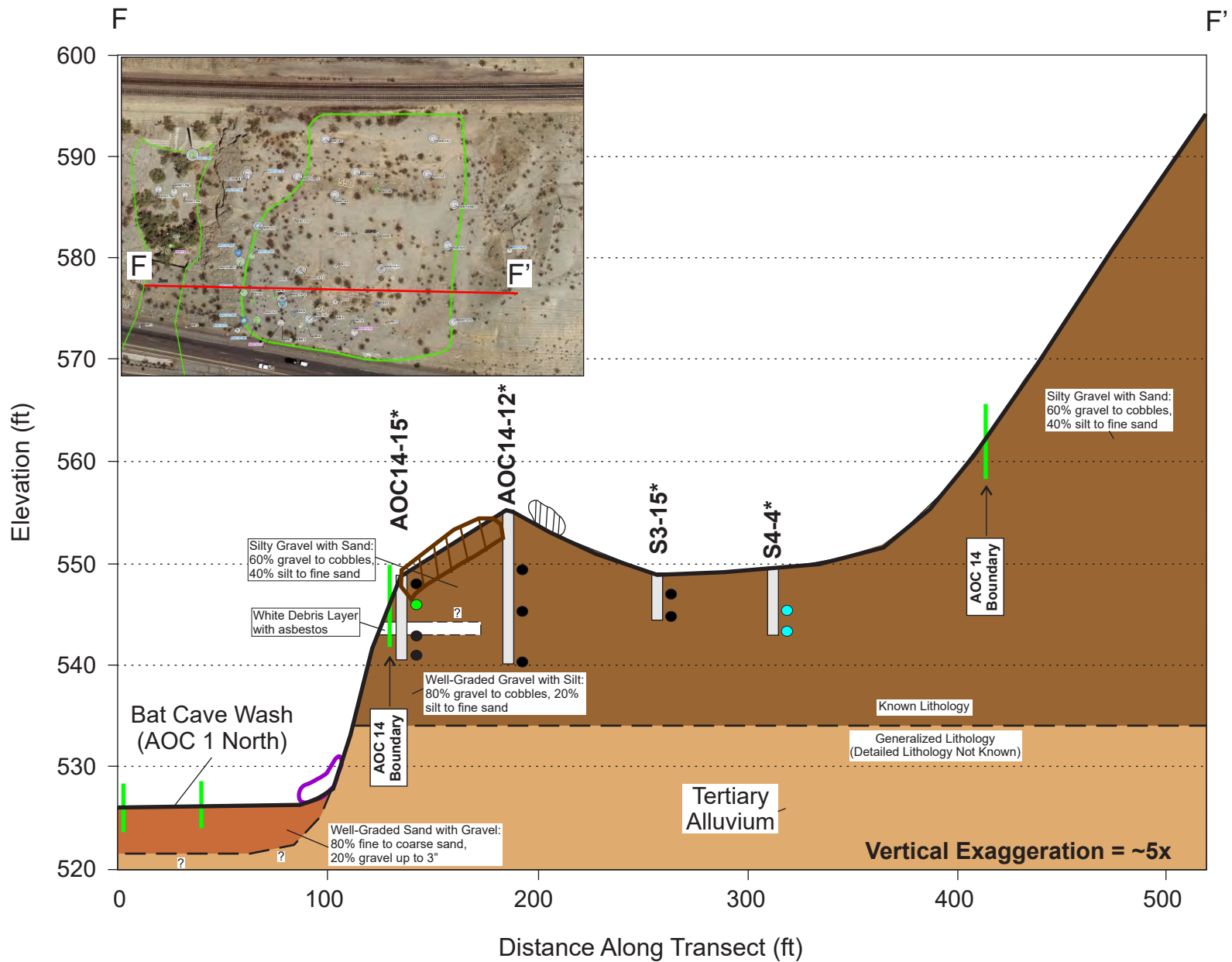


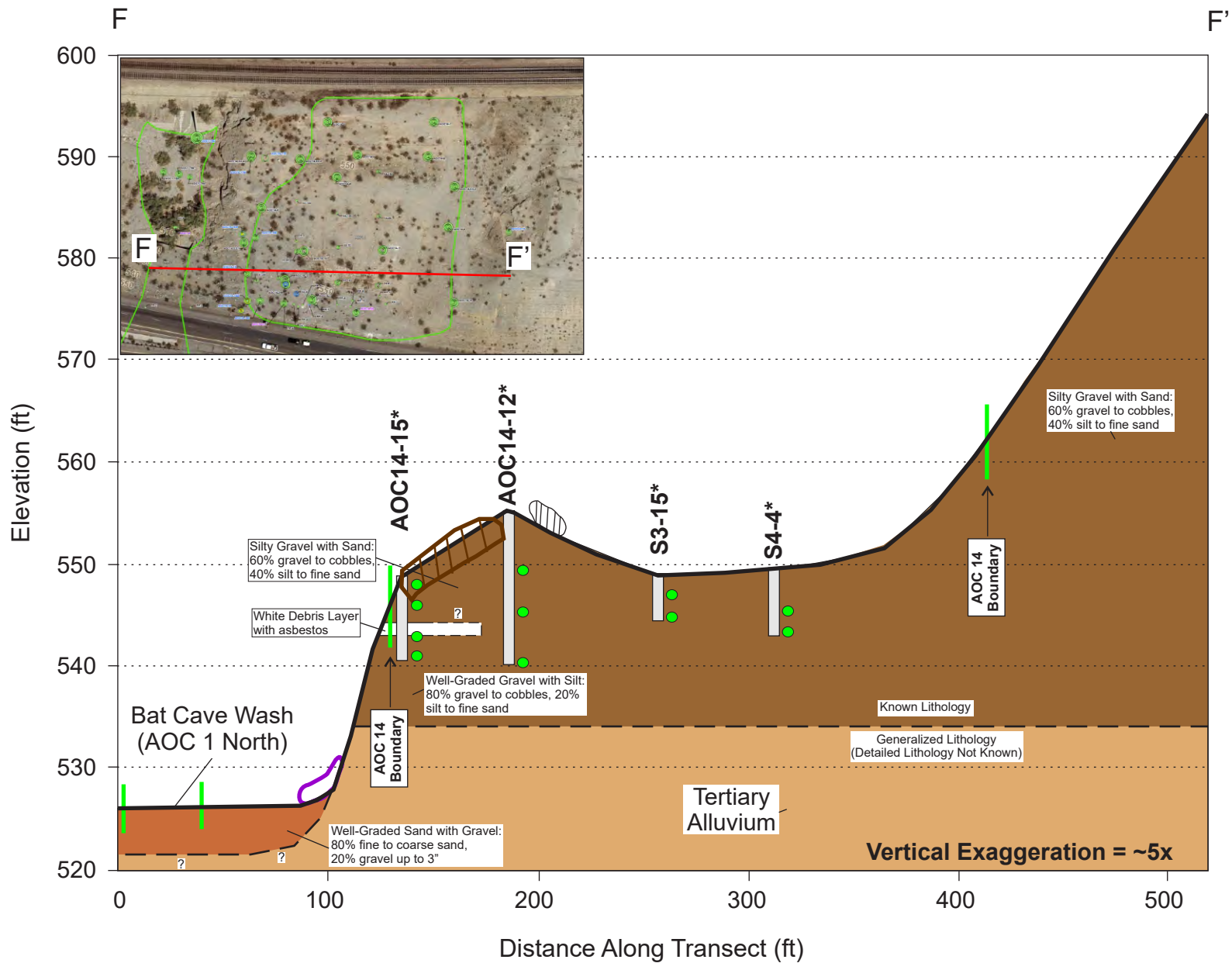
Figure 4-6a
Conceptual Site Model
AOC 14
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



LEGEND		CrVI mg/kg
	AOC 1/AOC 14 Boundary	
	Topography	
	Debris Feature	
	Former Disposal/Burning Area	
	Approximate Location of White Powder	
	Soil Boring	
	Analytical Soil Sample	
	Soil Concentration Non-Detect	
	Soil Concentration < Background (0.83 mg/kg)	
	Soil Concentration > Background (0.83 mg/kg)	

Notes:
 *Samples are offset from transect.
 -Detailed lithology is shown where information from boring logs is available. Generalized lithology (from RFI/RI Volume 2 Report) is shown where detailed lithology information is not available.

Figure 4-6b
 West to East Cross Section Showing Hexavalent Chromium Results
 AOC 14
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



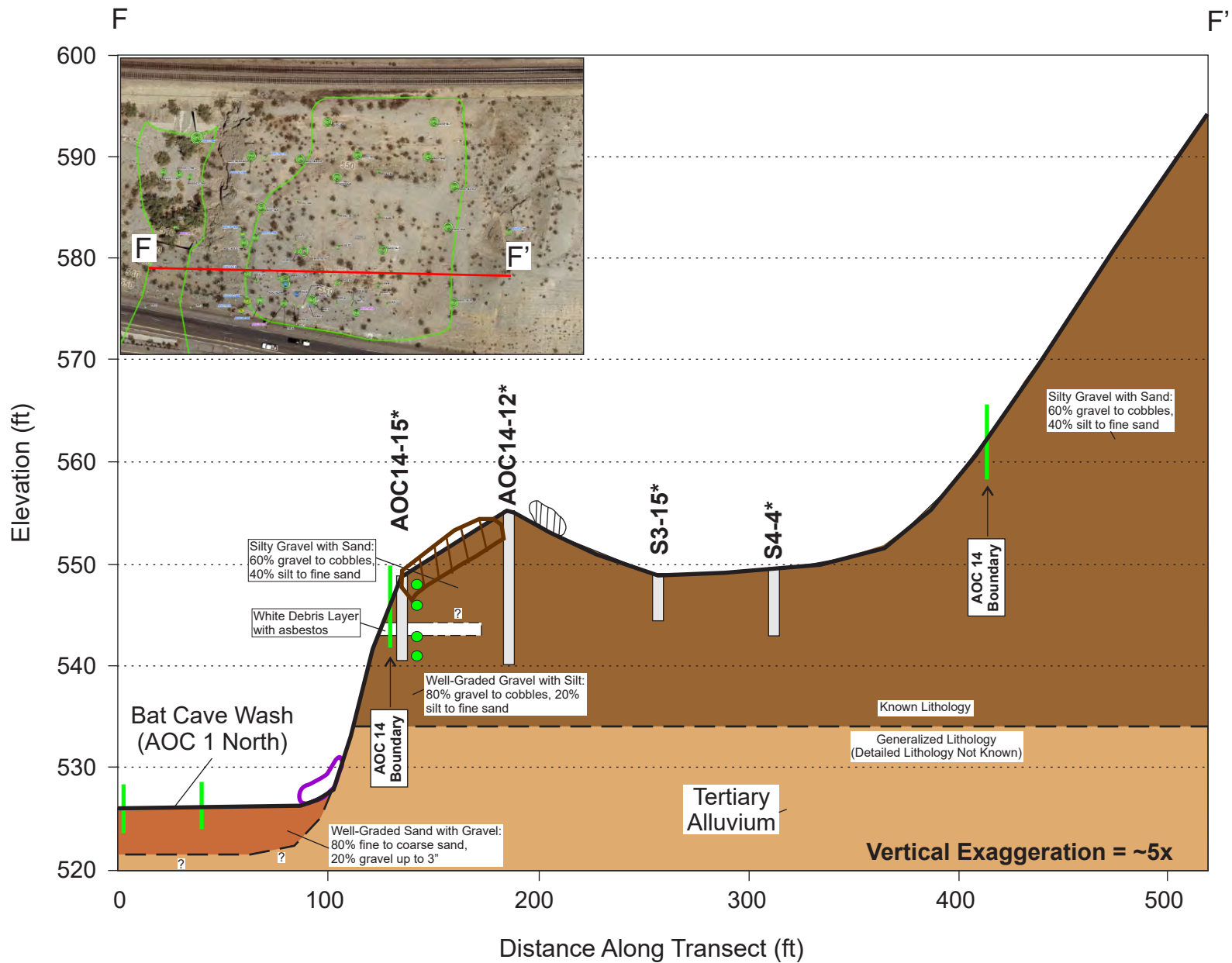
LEGEND

- AOC 1/AOC 14 Boundary
- Topography
- Debris Feature
- Former Disposal/Burning Area
- Approximate Location of White Powder
- Soil Boring
- Analytical Soil Sample
- Soil Concentration Non-Detect
- Soil Concentration < Background (39.8 mg/kg)

Notes:
 *Samples are offset from transect.
 -Detailed lithology is shown where information from boring logs is available. Generalized lithology (from RFI/RI Volume 2 Report) is shown where detailed lithology information is not available.

Figure 4-6c
West to East Cross Section Showing
Total Chromium Results
AOC 14

RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

— AOC 1/AOC 14 Boundary

— Topography

Debris Feature

Former Disposal/Burning Area

Approximate Location of White Powder

Soil Boring

TEQ Human ng/kg

○ Analytical Soil Sample

● Soil Concentration < ISL (50 ng/kg)

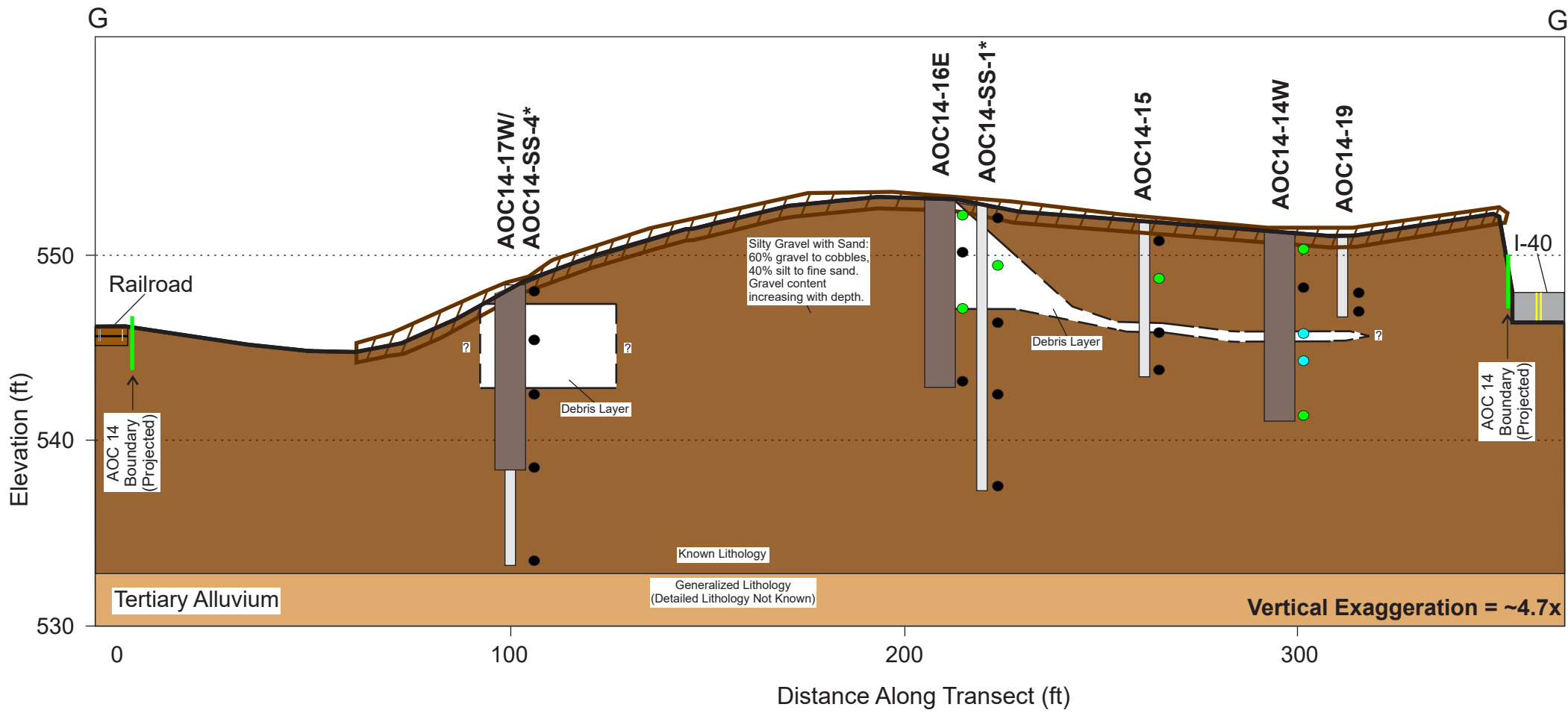
● Soil Concentration > ISL (50 ng/kg)

Notes:

- For ease of review, soil concentrations are only screened against the ISL (50 ng/kg). The HHERA defined remedial action goal is 100 ng/kg.
- Detailed lithology is shown where information from boring logs is available. Generalized lithology (from RFI/RI Volume 2 Report) is shown where detailed lithology information is not available.

Figure 4-6d
West to East Cross Section Showing
Human Dioxins and Furans TEQ Results
AOC 14

RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



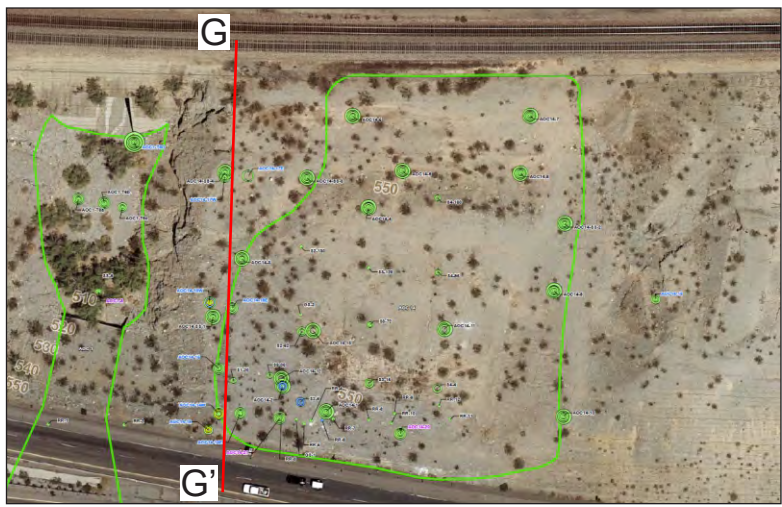
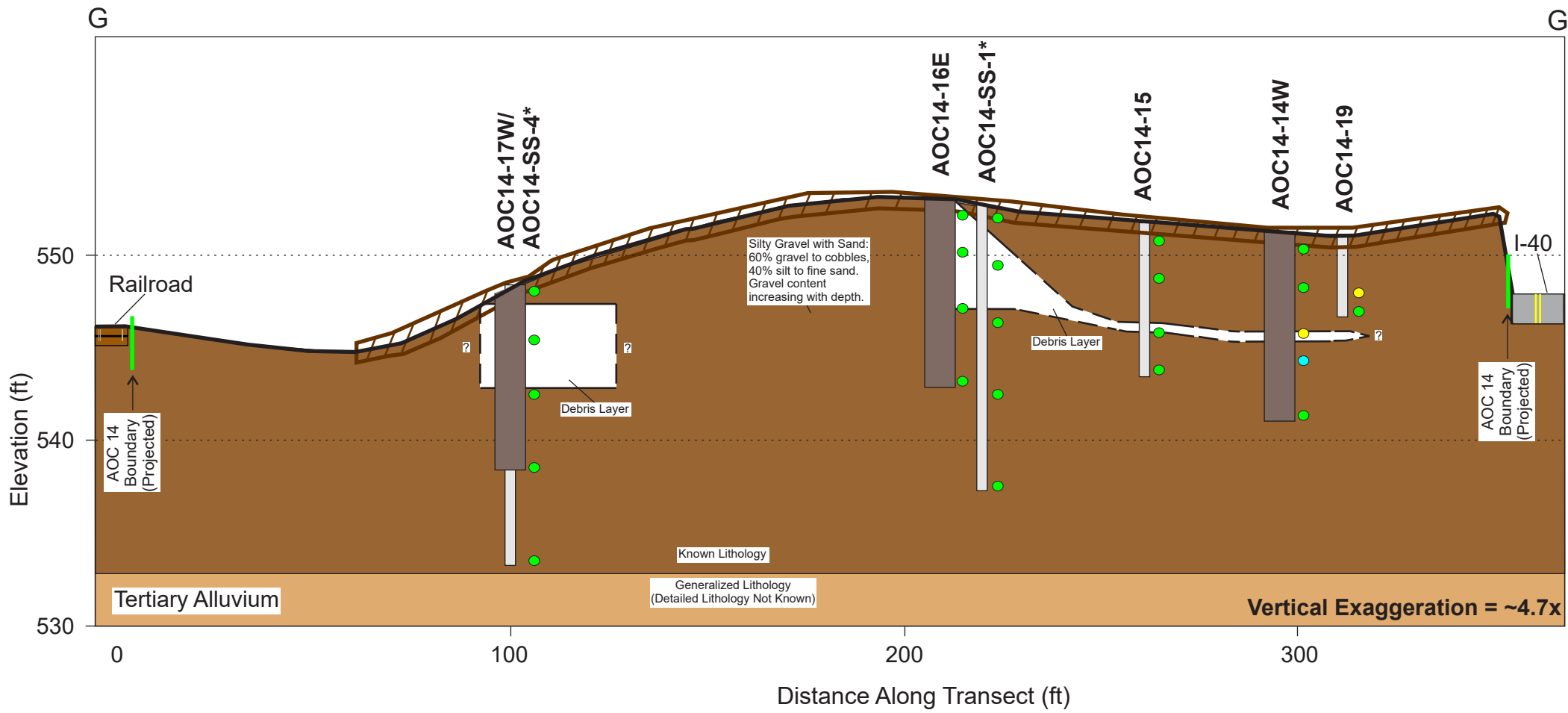
LEGEND

- Topography
- Former Disposal/Burning Area
- Soil Boring
- Trench
- CrVI mg/kg**
- Analytical Soil Sample
- Soil Concentration Non-Detect
- Soil Concentration < Background (0.83 mg/kg)
- Soil Concentration > Background (0.83 mg/kg)

Notes:
 *Samples are offset from transect.
 -Detailed lithology is shown where information from boring logs is available. Generalized lithology (from RFI/RI Volume 2 Report) is shown where detailed lithology information is not available.



Figure 4-6e
North to South Cross Section Showing Hexavalent Chromium Results AOC 14
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS

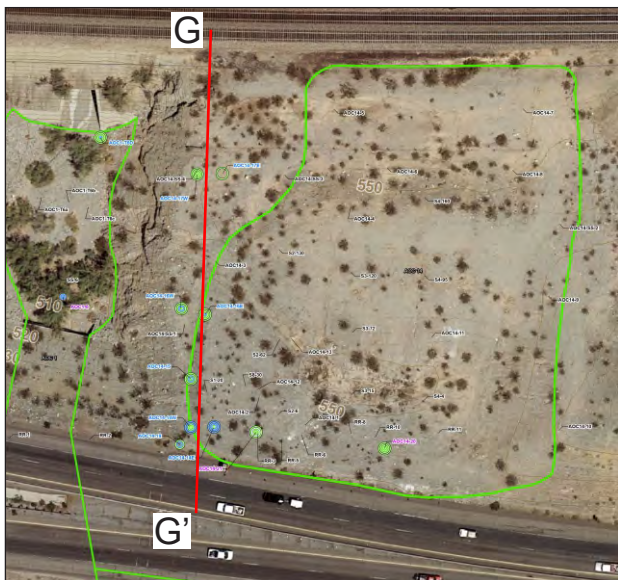
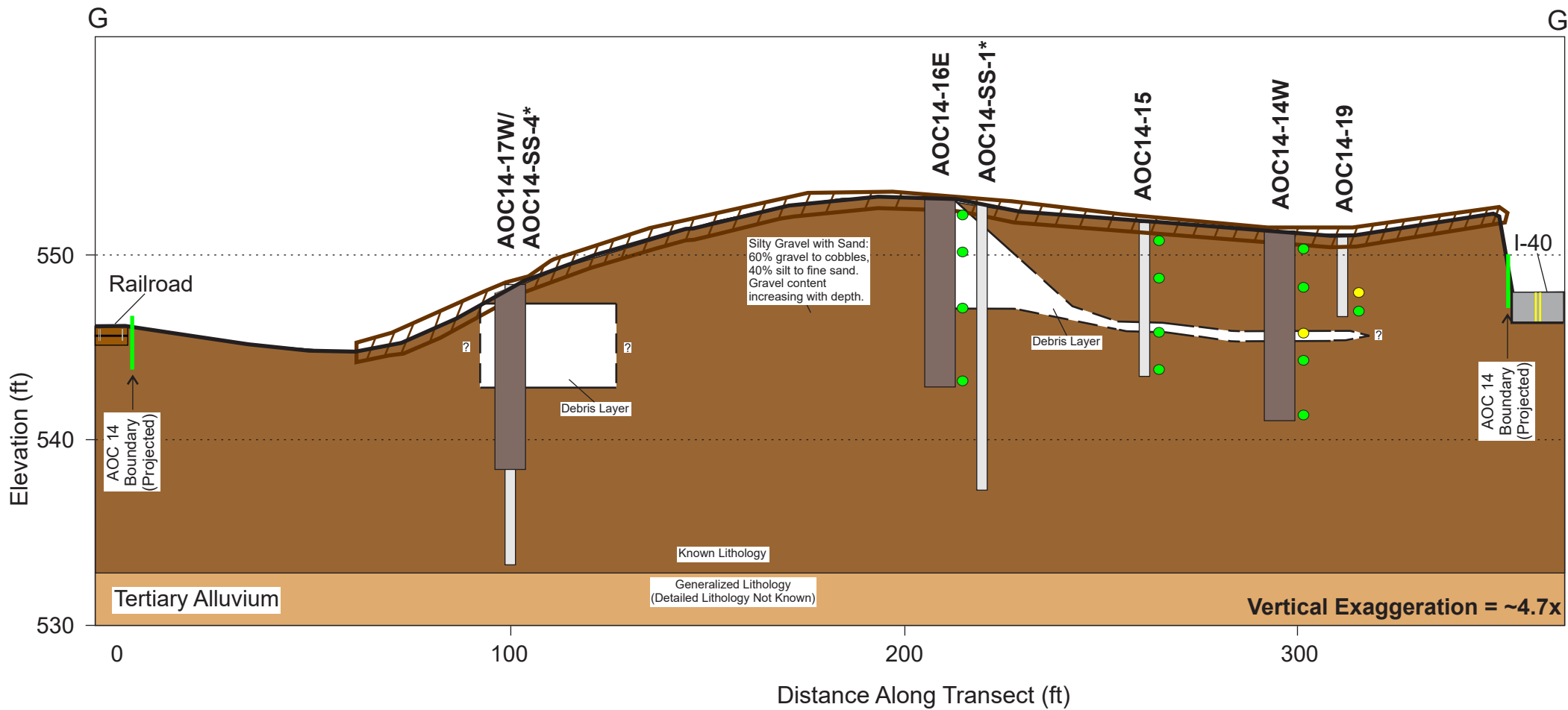


LEGEND

- Topography
- Former Disposal/Burning Area
- Soil Boring
- Trench
- Total Chromium mg/kg**
- Analytical Soil Sample
- Soil Concentration < Background (39.8 mg/kg)
- Soil Concentration > Background (39.8 mg/kg)
- Soil Concentration > 100 mg/kg

Notes:
 *Samples are offset from transect.
 -Detailed lithology is shown where information from boring logs is available. Generalized lithology (from RF/RI Volume 2 Report) is shown where detailed lithology information is not available.

Figure 4-6f
North to South Cross Section Showing Total Chromium Results
AOC 14
 RF/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS



LEGEND

- Topography
- Former Disposal/Burning Area
- Soil Boring
- Trench

TEQ Human ng/kg

- Analytical Soil Sample
- Soil Concentration < ISL (50 ng/kg)
- Soil Concentration > ISL (50 ng/kg)

Notes:

- For ease of review, soil concentrations are only screened against the ISL (50 ng/kg). The HHERA defined remedial action goal is 100 ng/kg.
- Inset map shows mammal dioxins and furans TEQ results; no human dioxins and furans TEQ results figure was developed because there were fewer than 3 exceedances of the ISL.
- Detailed lithology is shown where information from boring logs is available. Generalized lithology (from RFI/RI Volume 2 Report) is shown where detailed lithology information is not available.

Figure 4-6g
North to South Cross Section Showing Human Dioxins and Furans TEQ Results AOC 14
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California

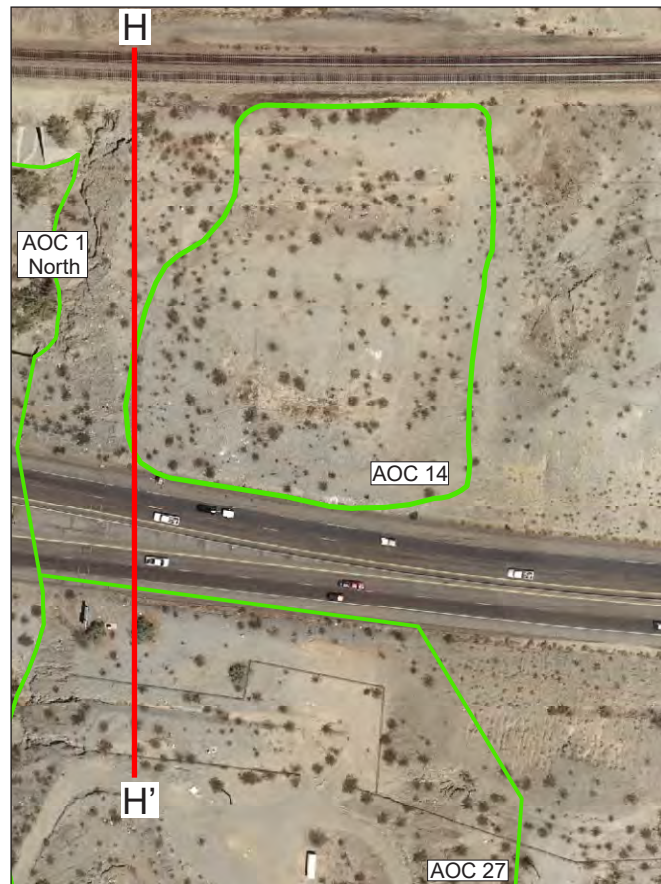
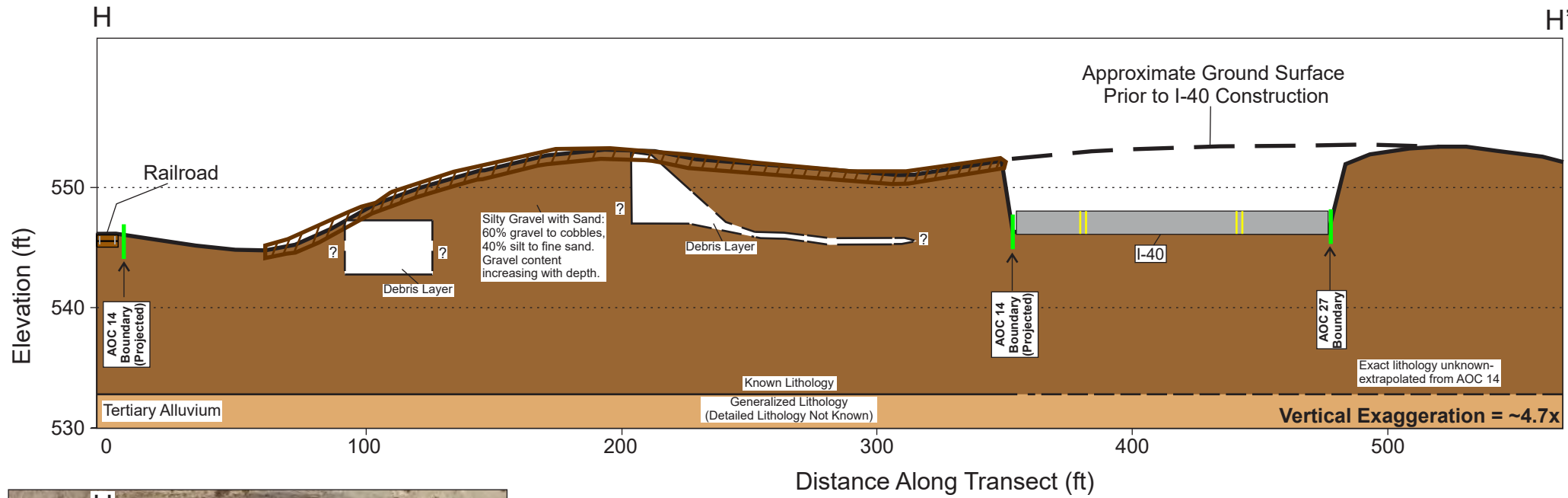
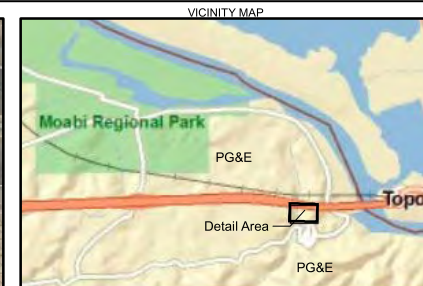
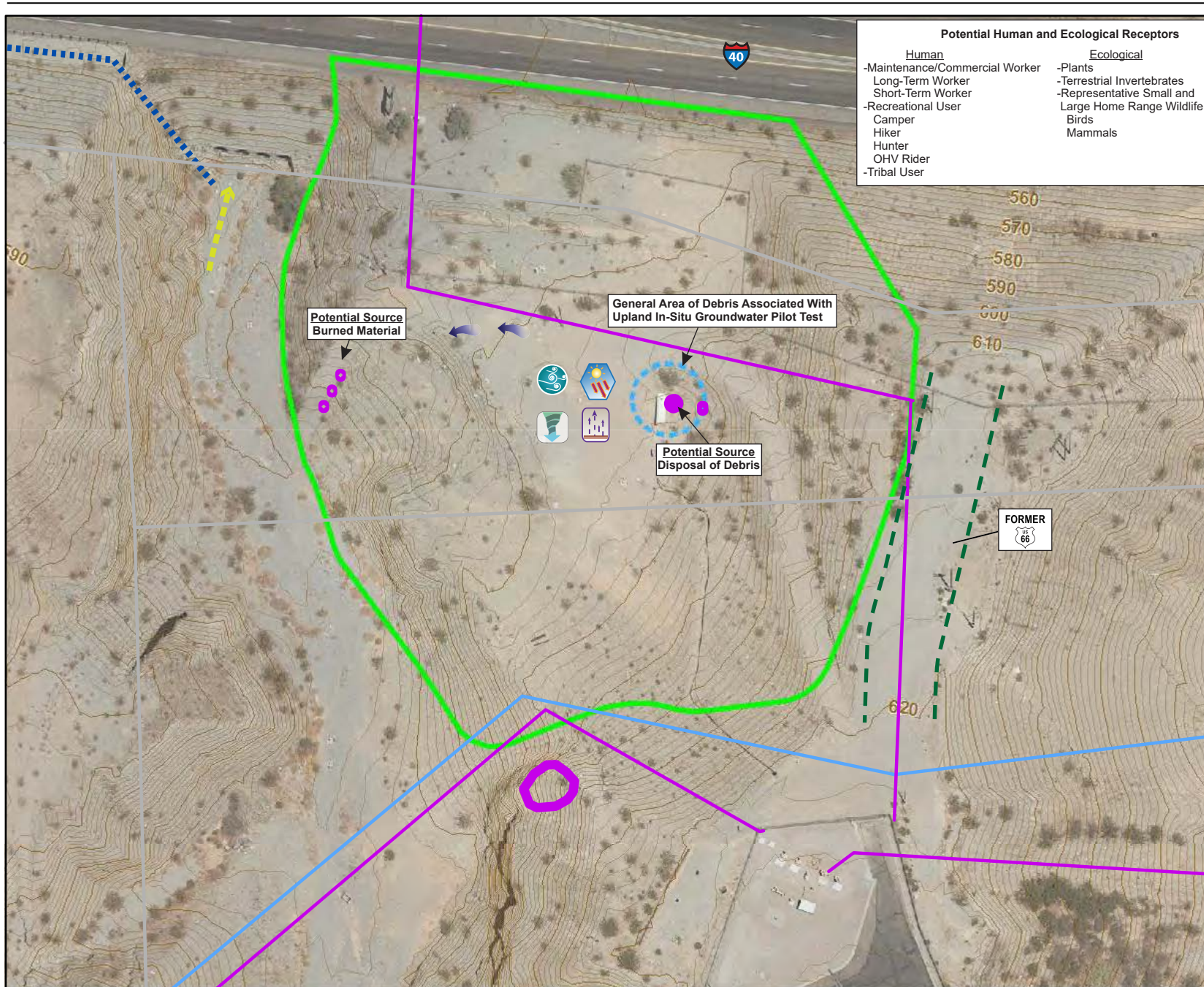


Figure 4-6h
North to South Cross Section Depicting Approximate Historical Ground Surface Prior to I-40 Construction AOC 14
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



- LEGEND**
- Property Boundary
 - AOC 27 Boundary
 - Debris Area
 - Debris Features
 - Transwestern Pipeline
 - Mojave Pipeline
 - PG&E Pipeline
 - SoCal Gas Pipeline
 - Approximate Location of Stormwater Piping Below Ground
- Potential Release Mechanisms**
- Infrequent Surface Water Runoff
 - Infiltration (Site-wide)
 - Windblown Dispersion of Soil (Site-wide)
 - Volatilization (Site-wide)
 - Degradation by Heat/Light (Site-wide)
 - Downstream Movement During Flow Events

Note:
1. Topographic contours are shown at 2 foot intervals.

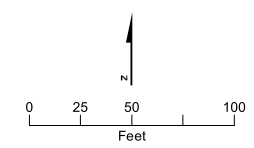


Figure 4-7
Conceptual Site Model
AOC 27
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



Potential Human and Ecological Receptors

Human

- Maintenance/Commercial Worker
- Long-Term Worker
- Short-Term Worker
- Recreational User
- Camper
- Hiker
- Hunter
- OHV Rider
- Tribal User

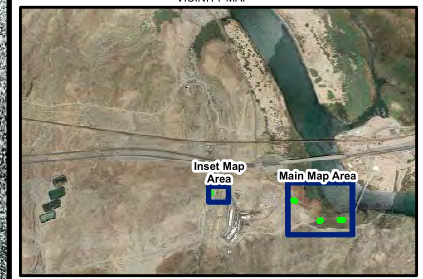
Ecological

- Plants
- Terrestrial Invertebrates
- Representative Small and Large Home Range Wildlife
- Birds
- Mammals

INSET MAP







VICINITY MAP



LEGEND

 AOC Boundary

Potential Release Mechanisms

-  Infrequent Surface Water Runoff
-  Infiltration (Site-wide)
-  Volatilization (Site-wide)
-  Degradation by Heat/Light (Site-wide)

**Potential Source
Incidental Spills While
Transferring Contents
Of Drip Legs To
Portable Tanks**

AOC28c

AOC28b

AOC28a

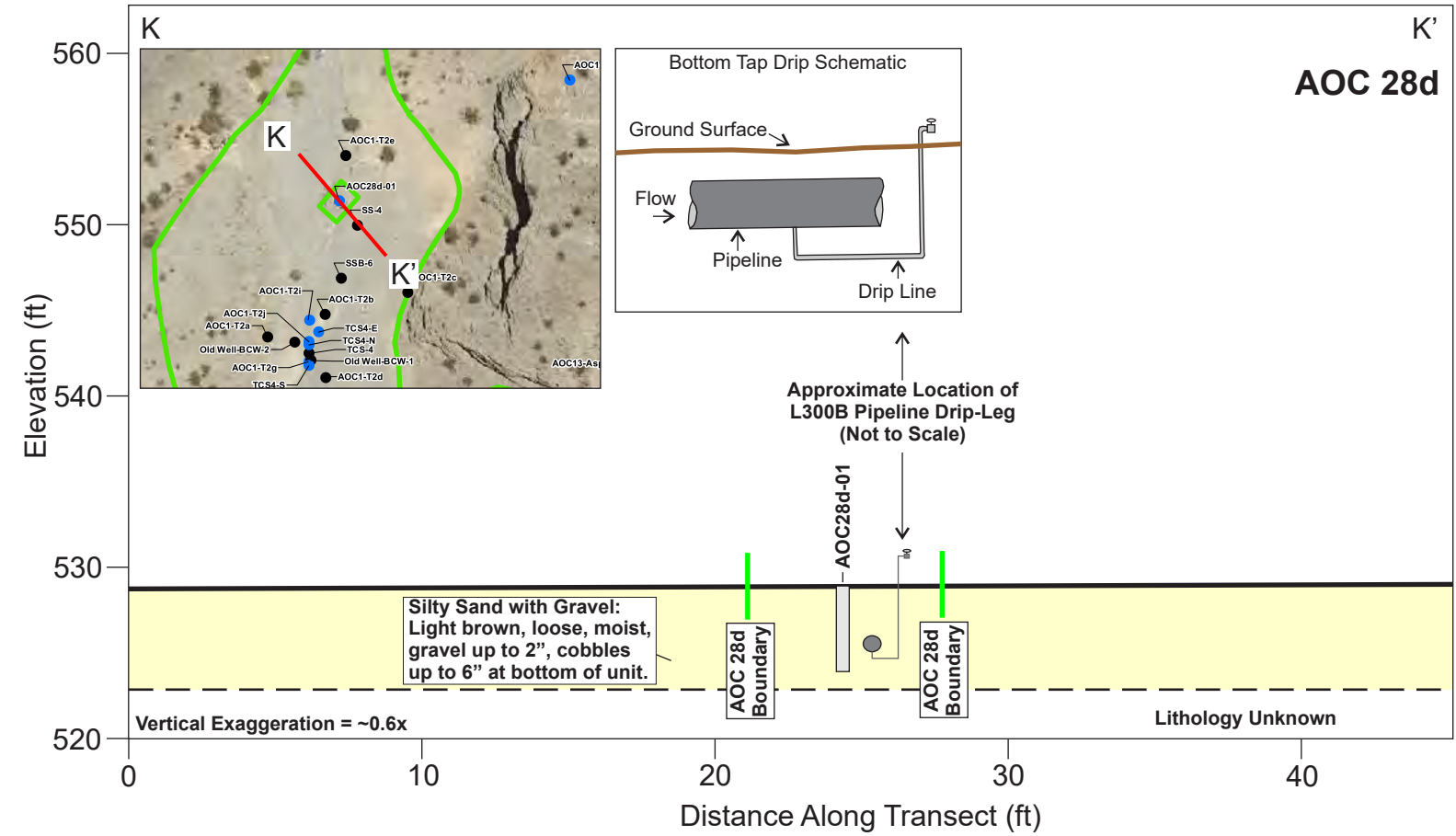
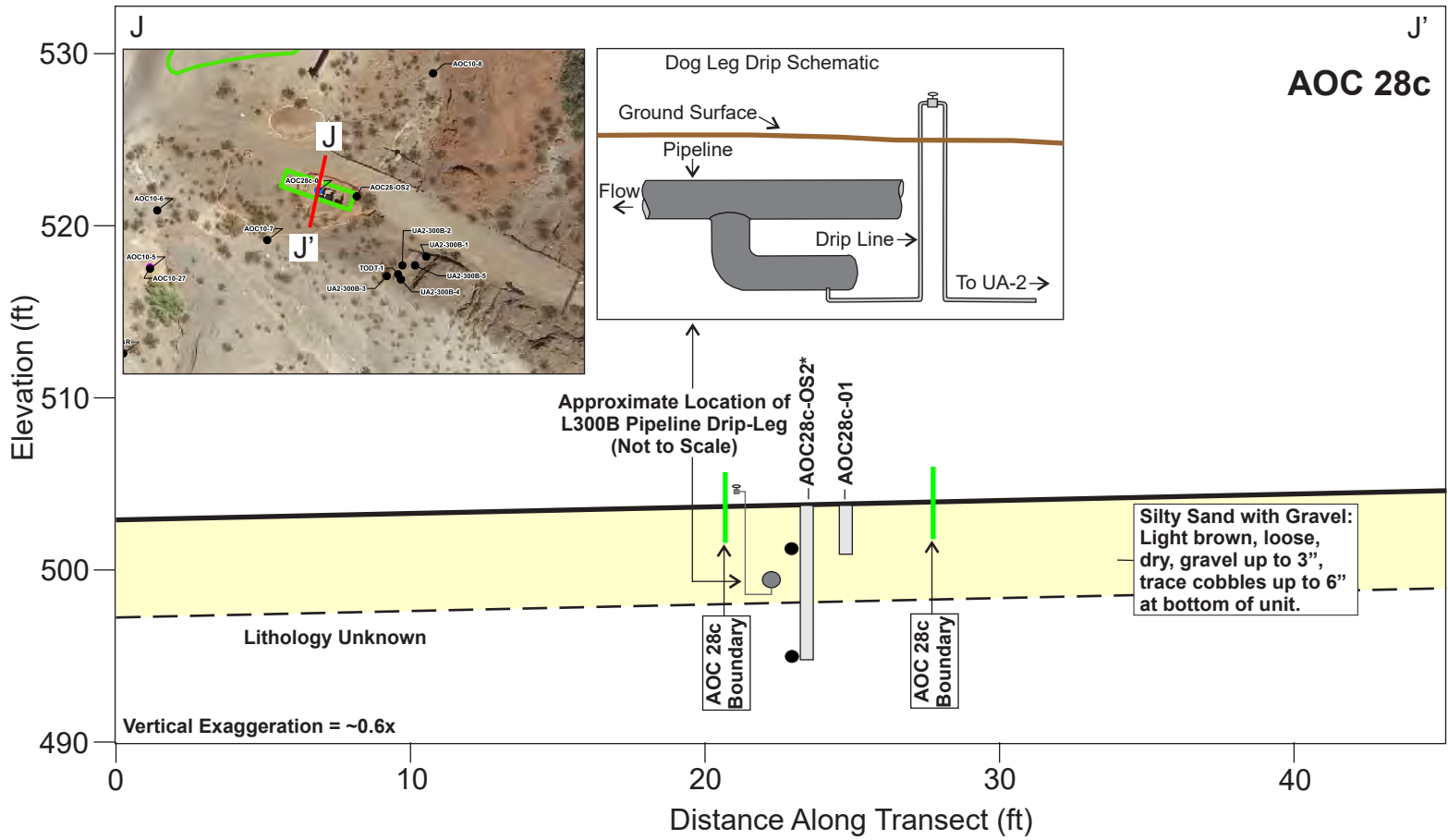
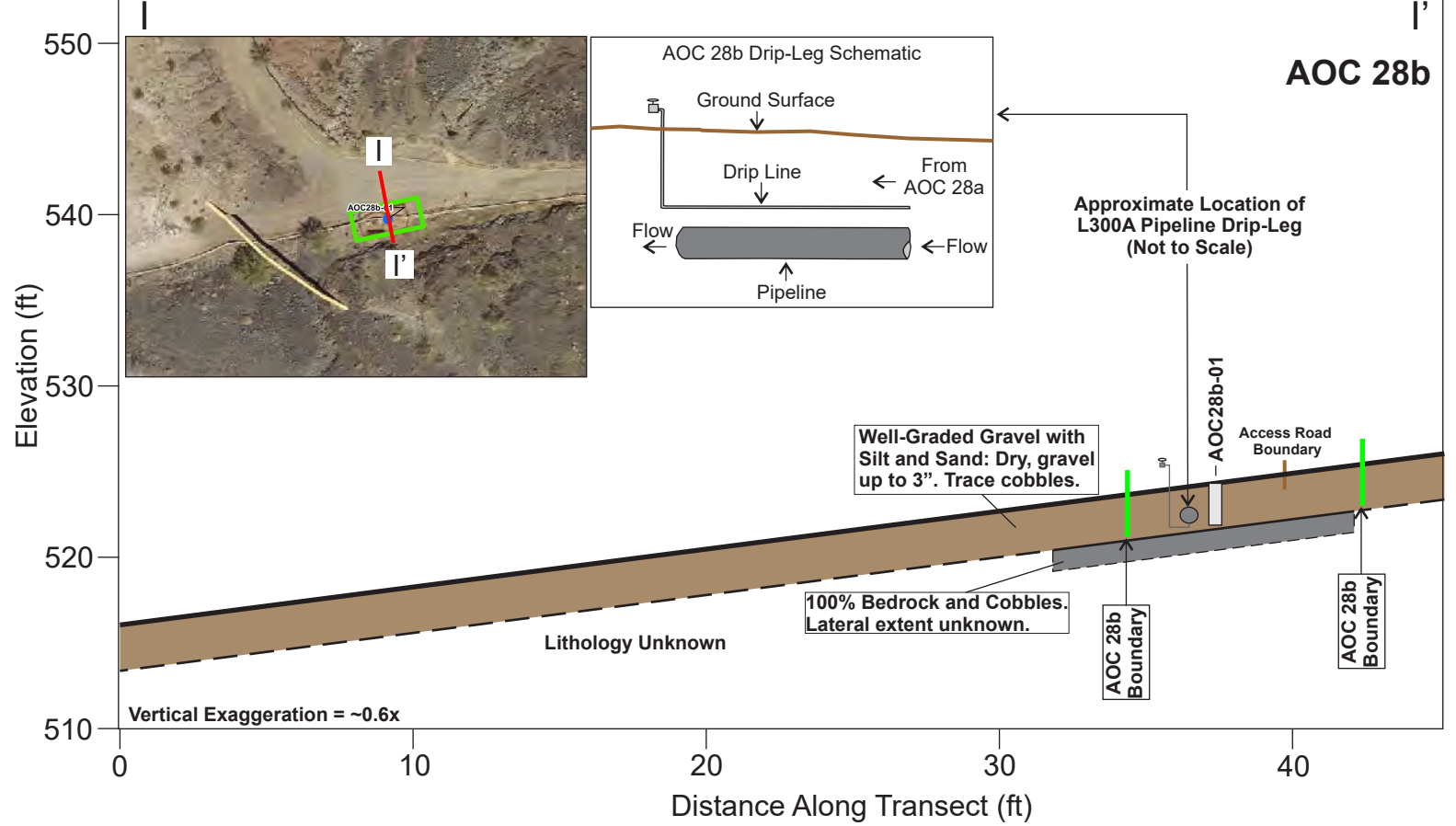
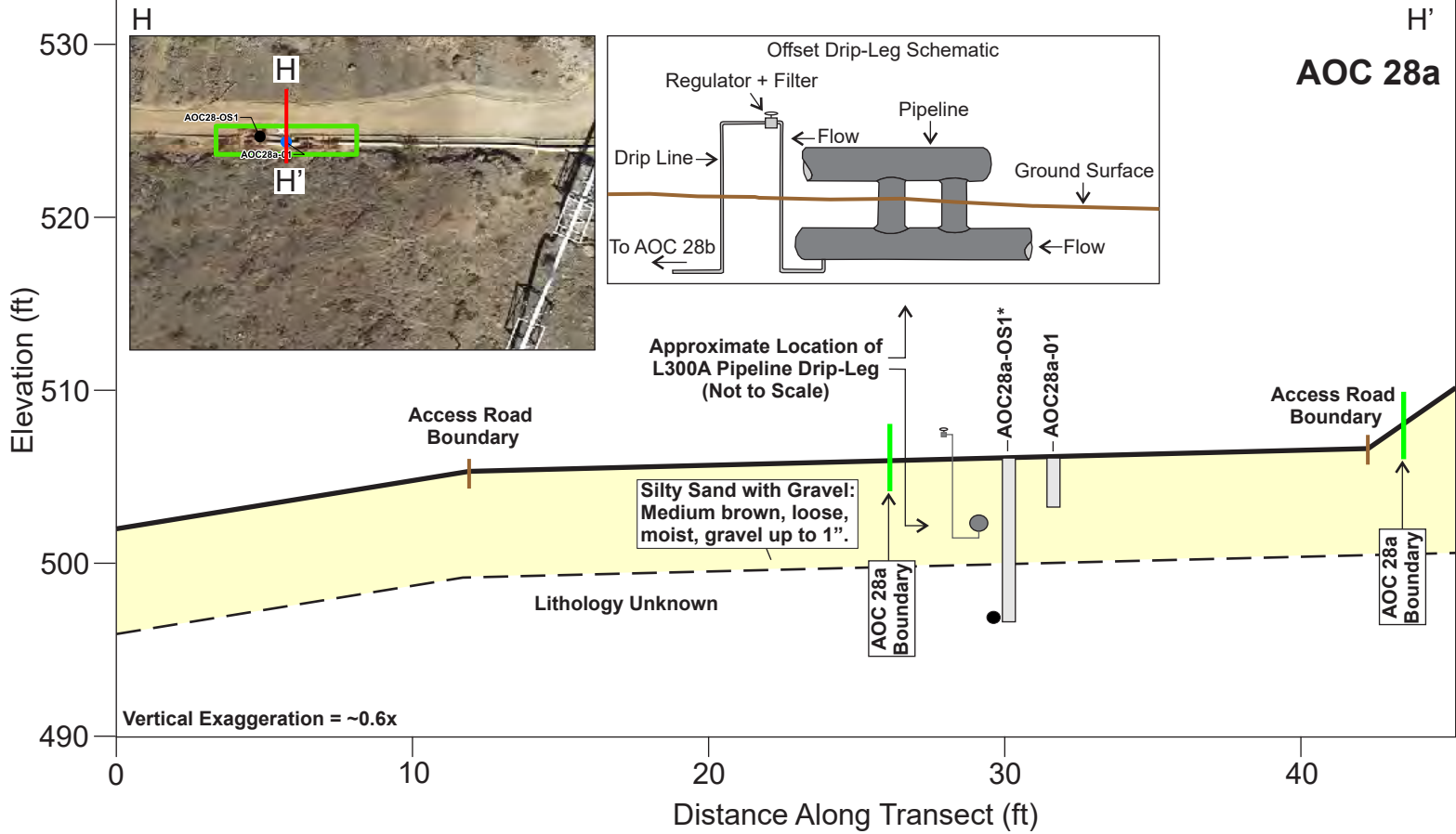
0 45 90 180 Feet



**Figure 4-8a
Conceptual Site Model
AOC 28**

RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California





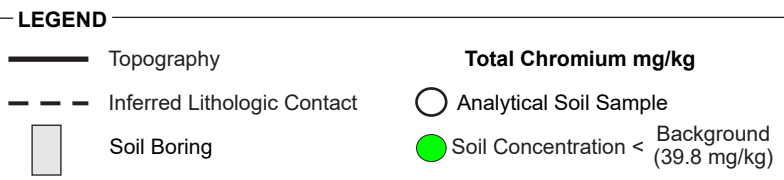
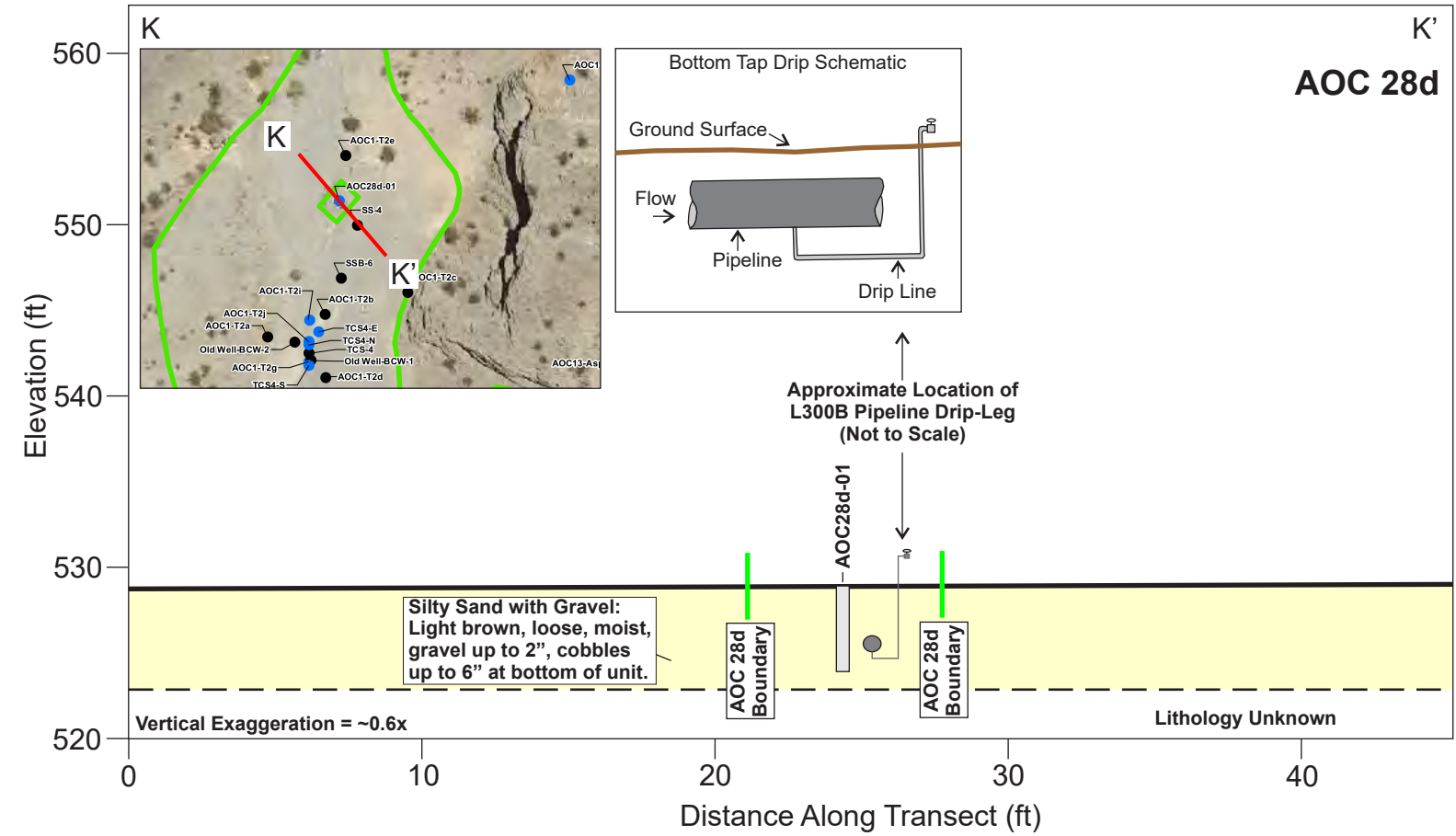
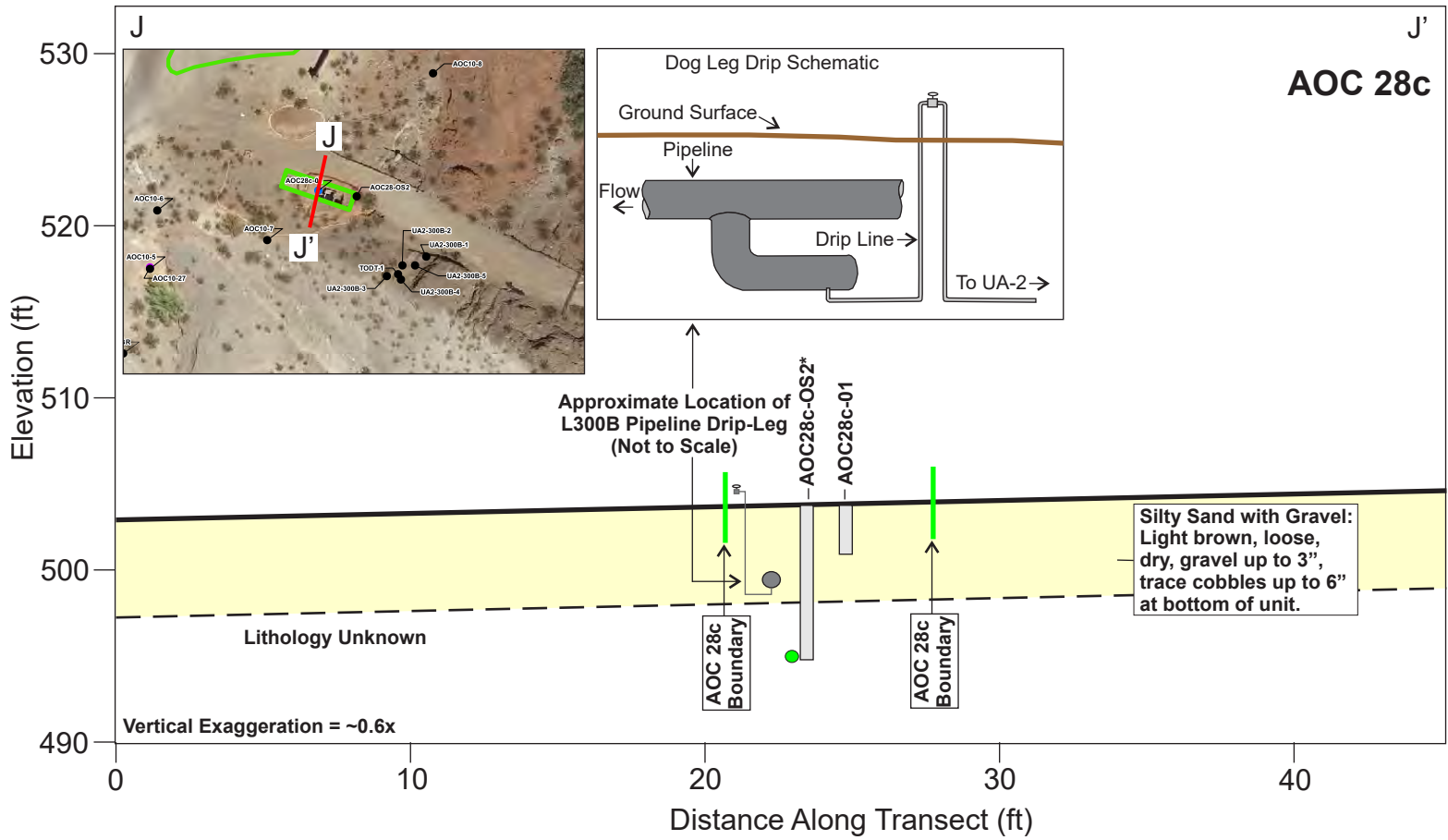
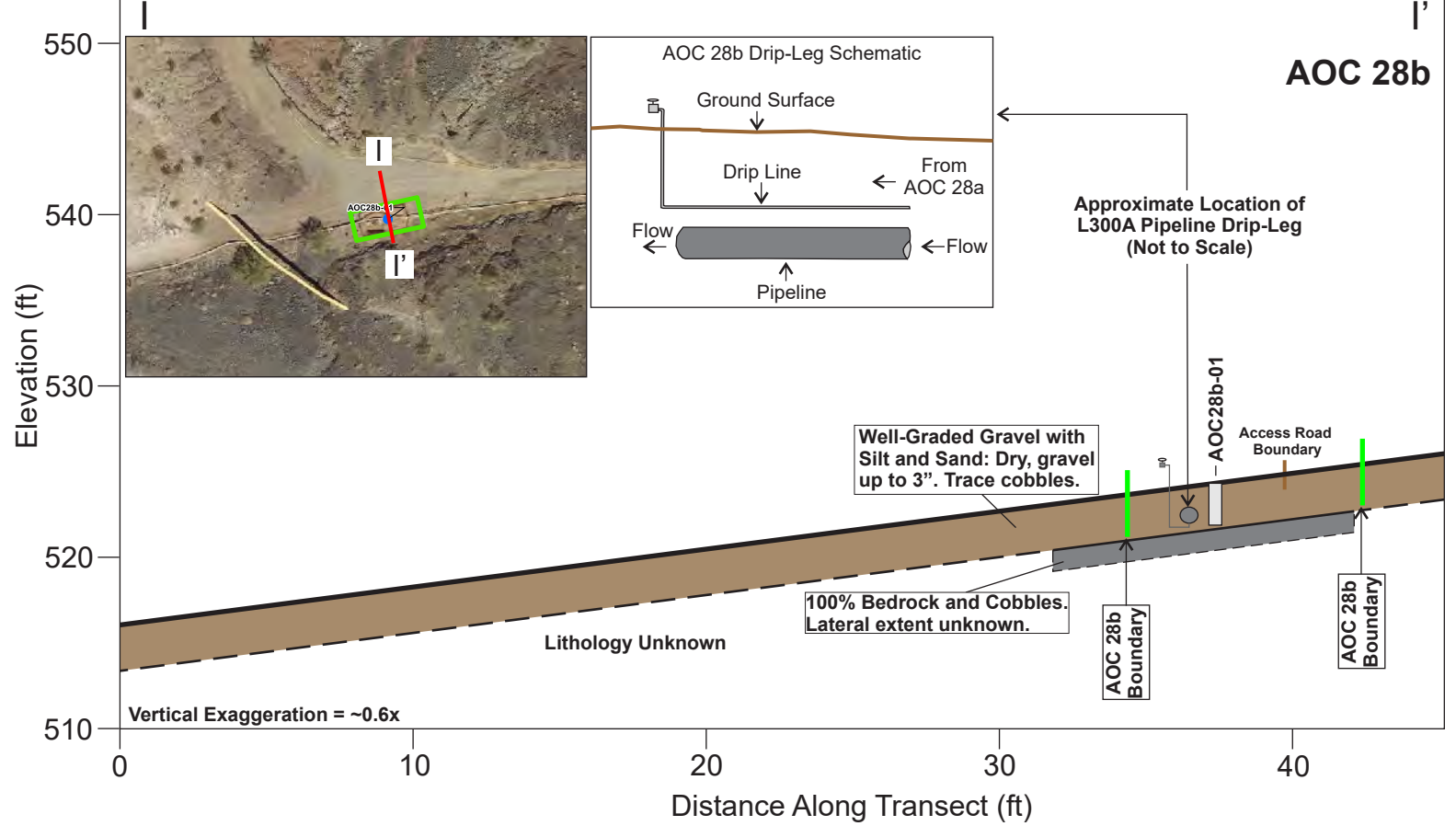
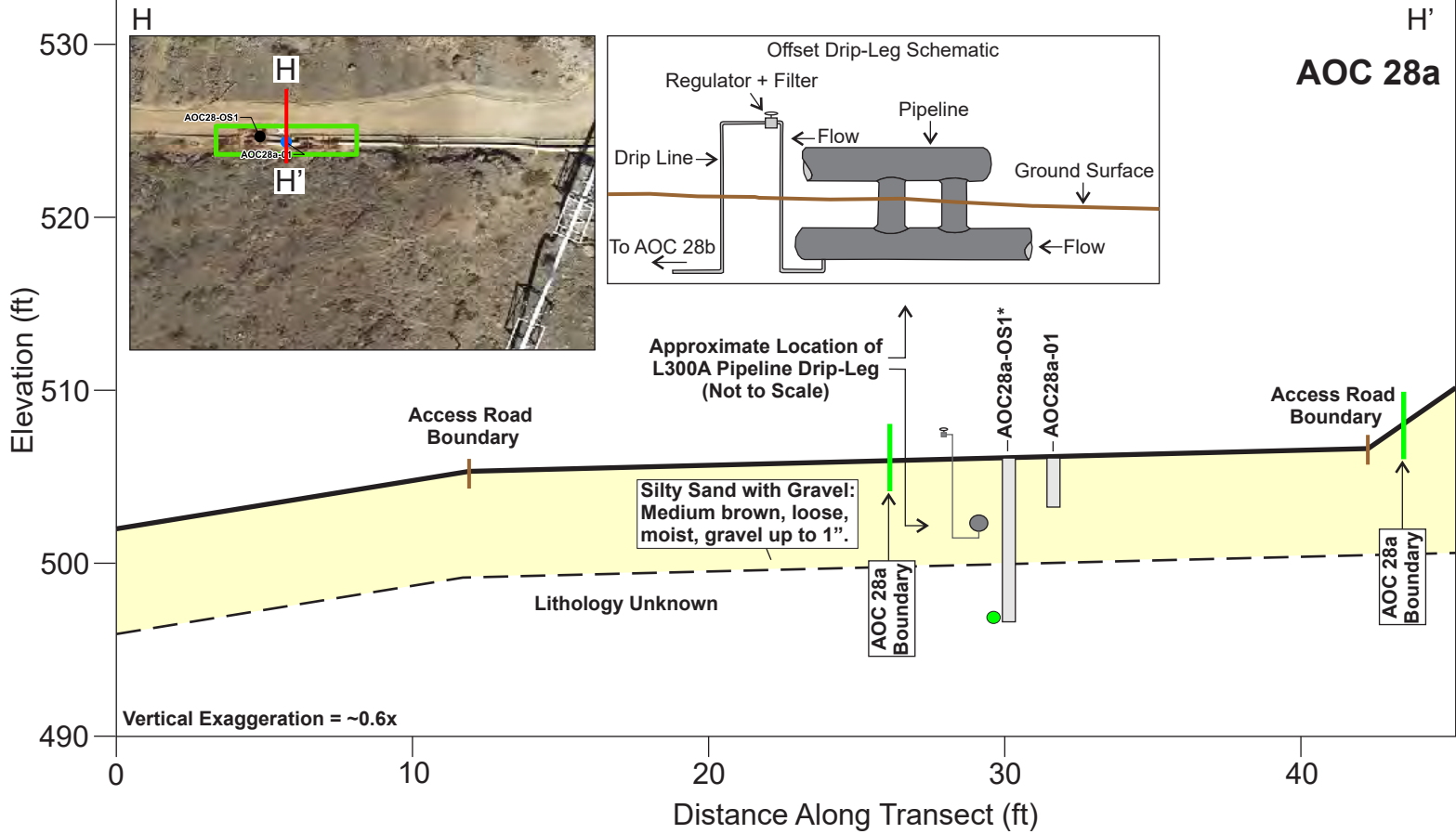
LEGEND

— Topography
- - - Inferred Lithologic Contact
□ Soil Boring

CrVI mg/kg
○ Analytical Soil Sample
● Soil Concentration Non-Detect

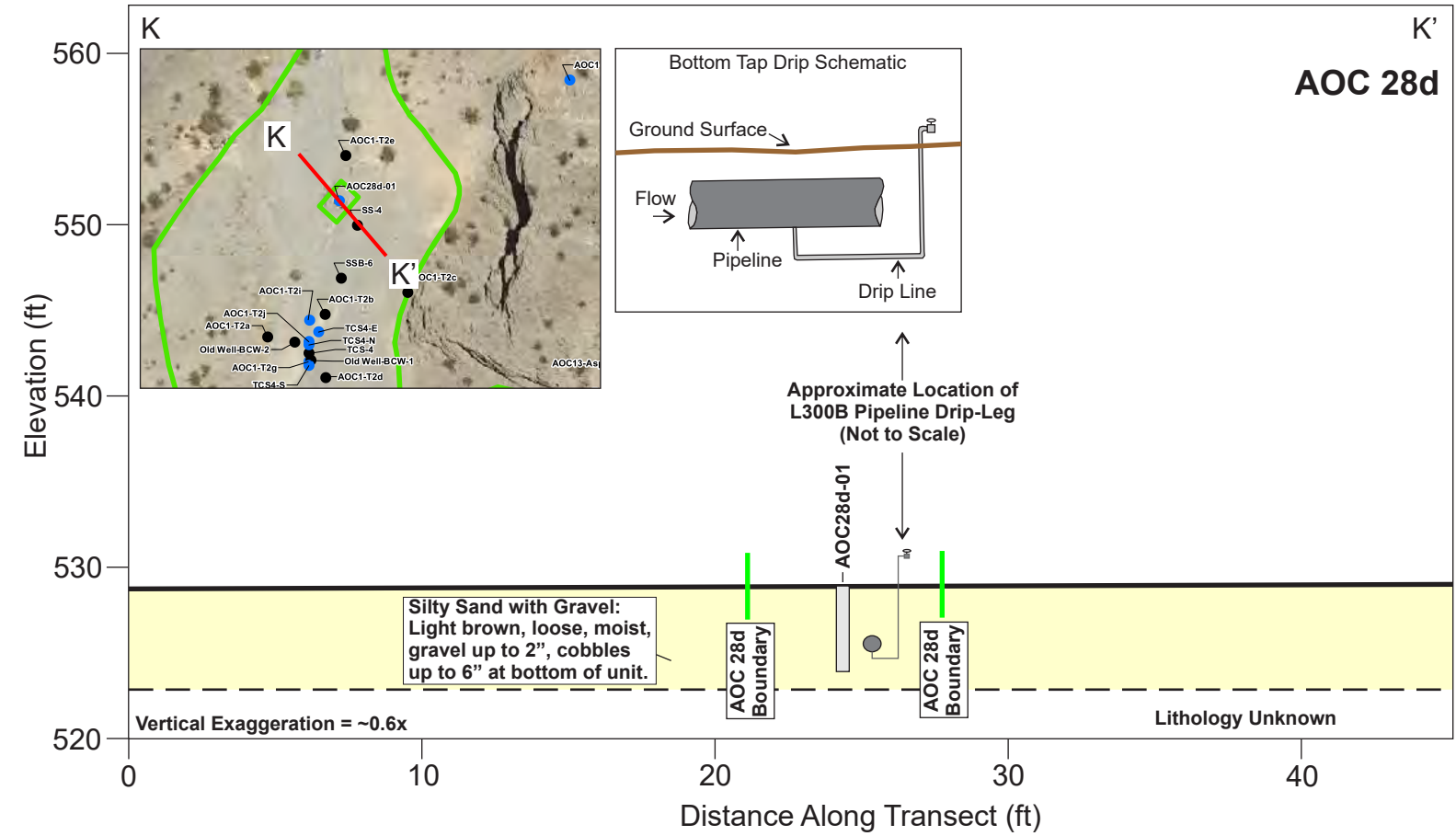
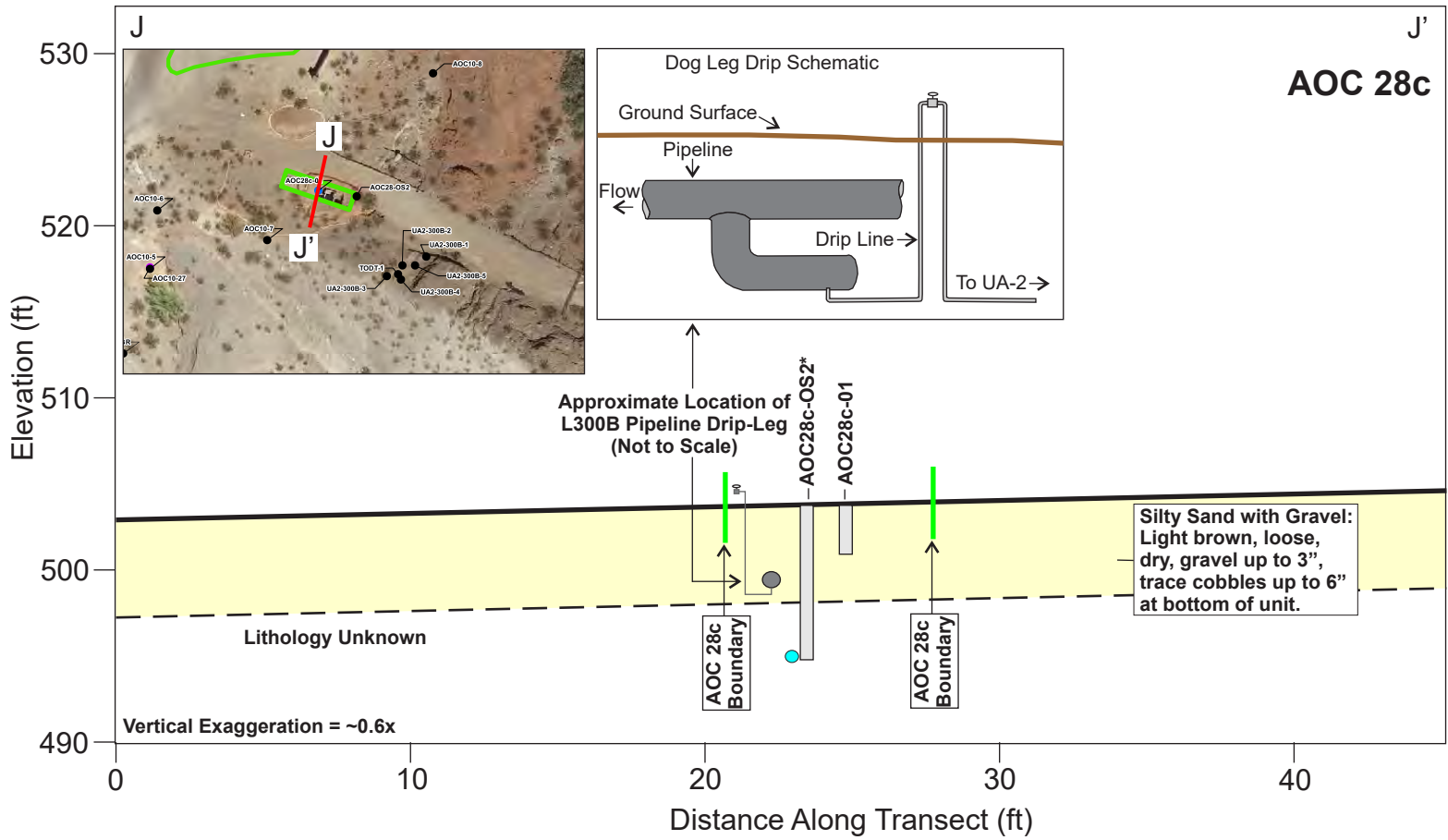
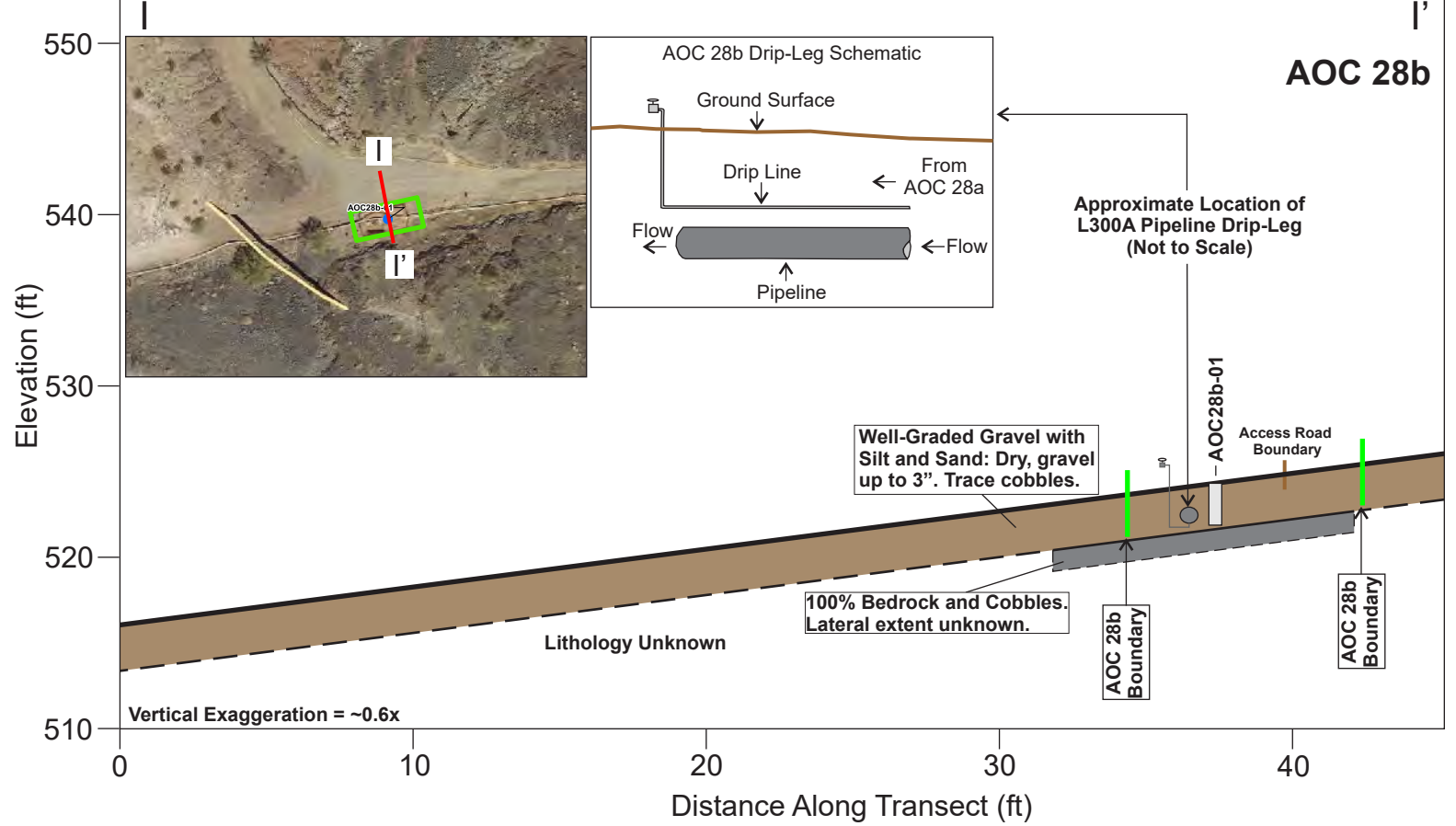
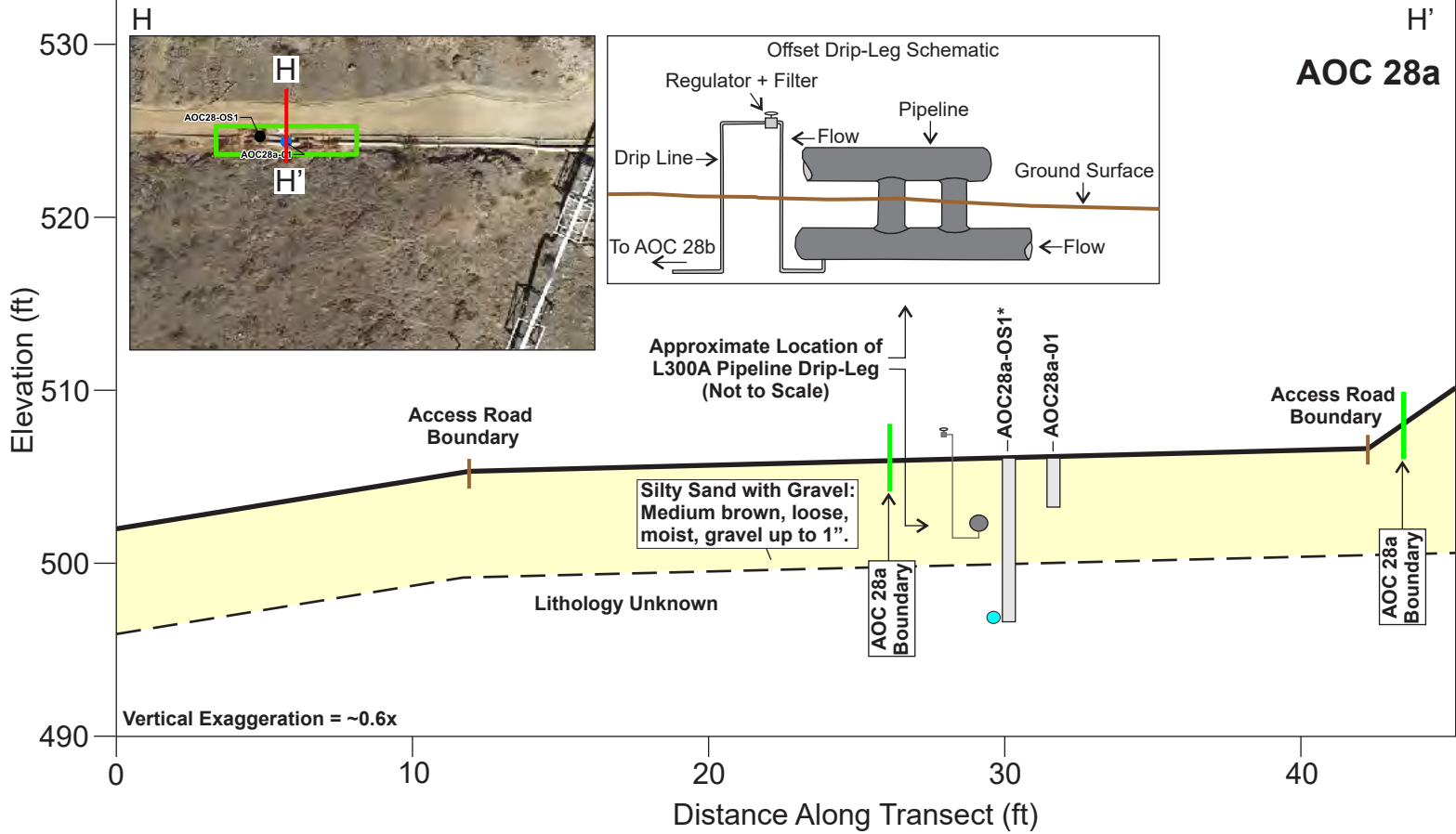
Notes:
*Samples are offset from transect and are projected onto section to show data. See inset maps for actual sample locations.
-Bottom Tap Drip at AOC 28d was removed in 2021.
-Detailed lithology is shown where information from boring logs is available.

Figure 4-8b
Cross Section Showing Hexavalent Chromium Results AOC 28
RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California
JACOBS



Notes:
*Samples are offset from transect and are projected onto section to show data. See inset maps for actual sample locations.
-Bottom Tap Drip at AOC 28d was removed in 2021.
-Detailed lithology is shown where information from boring logs is available.

Figure 4-8c
Cross Section Showing Total Chromium Results AOC 28
RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California
JACOBS



LEGEND

— Topography
- - - Inferred Lithologic Contact
□ Soil Boring

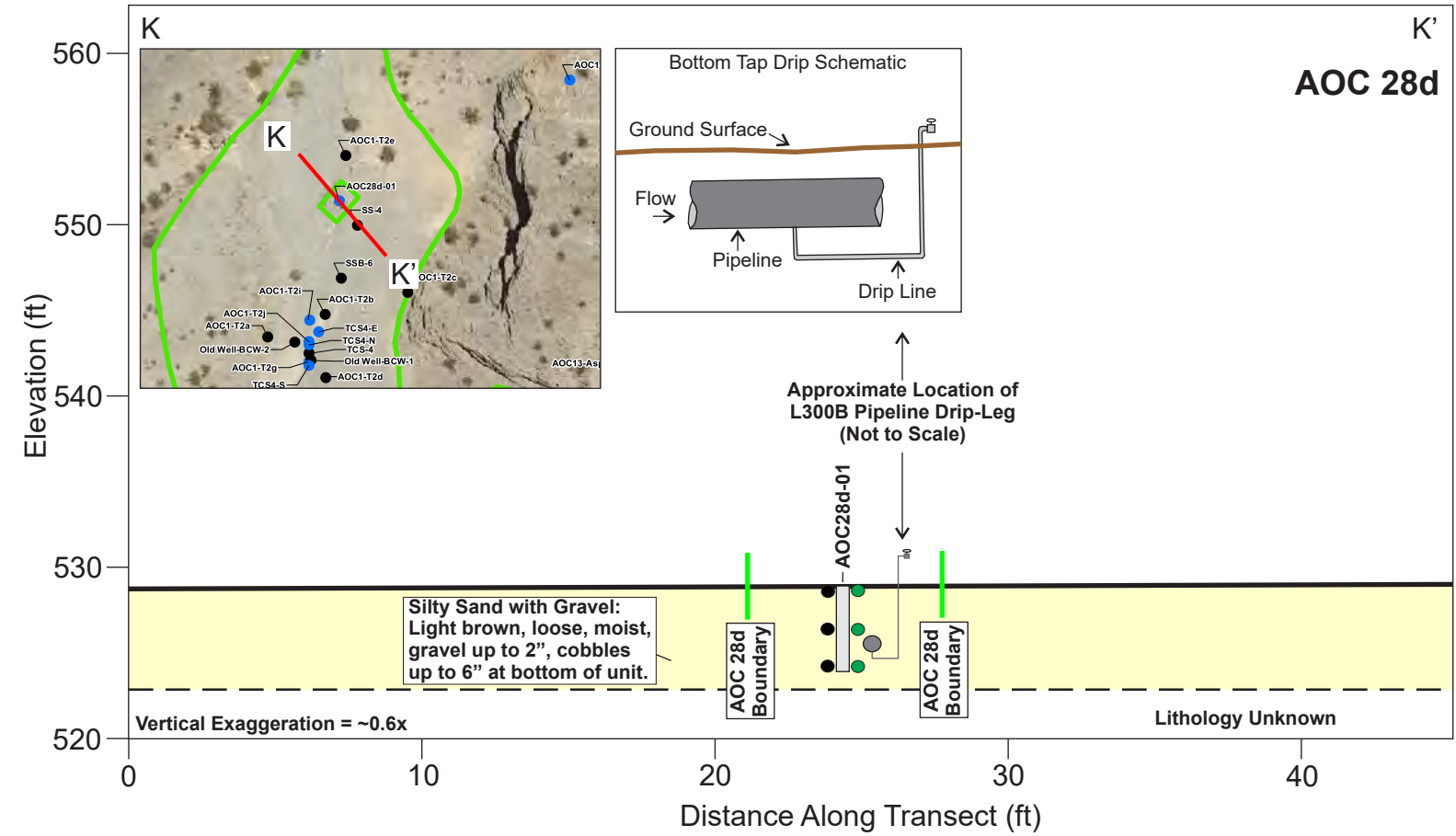
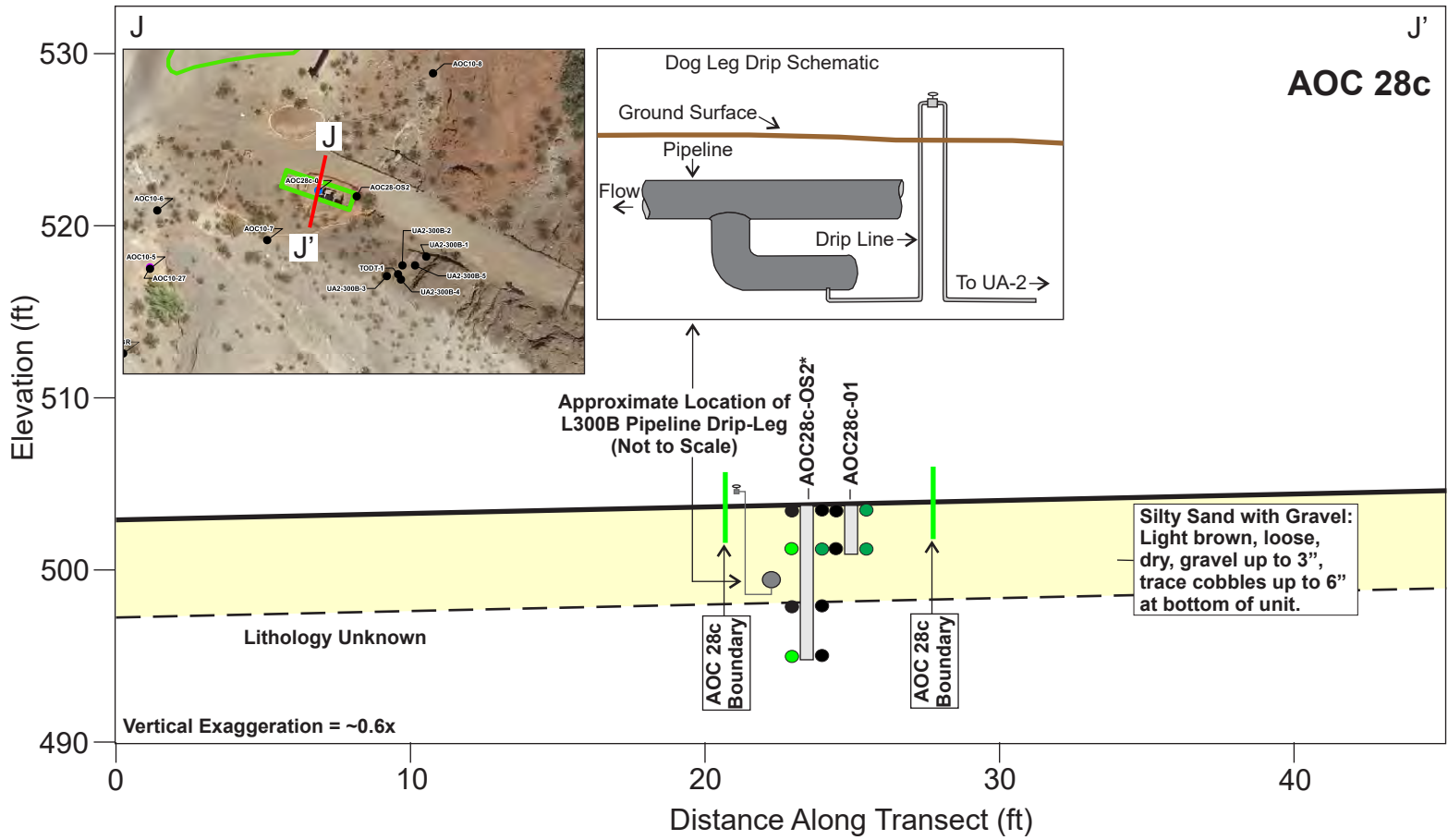
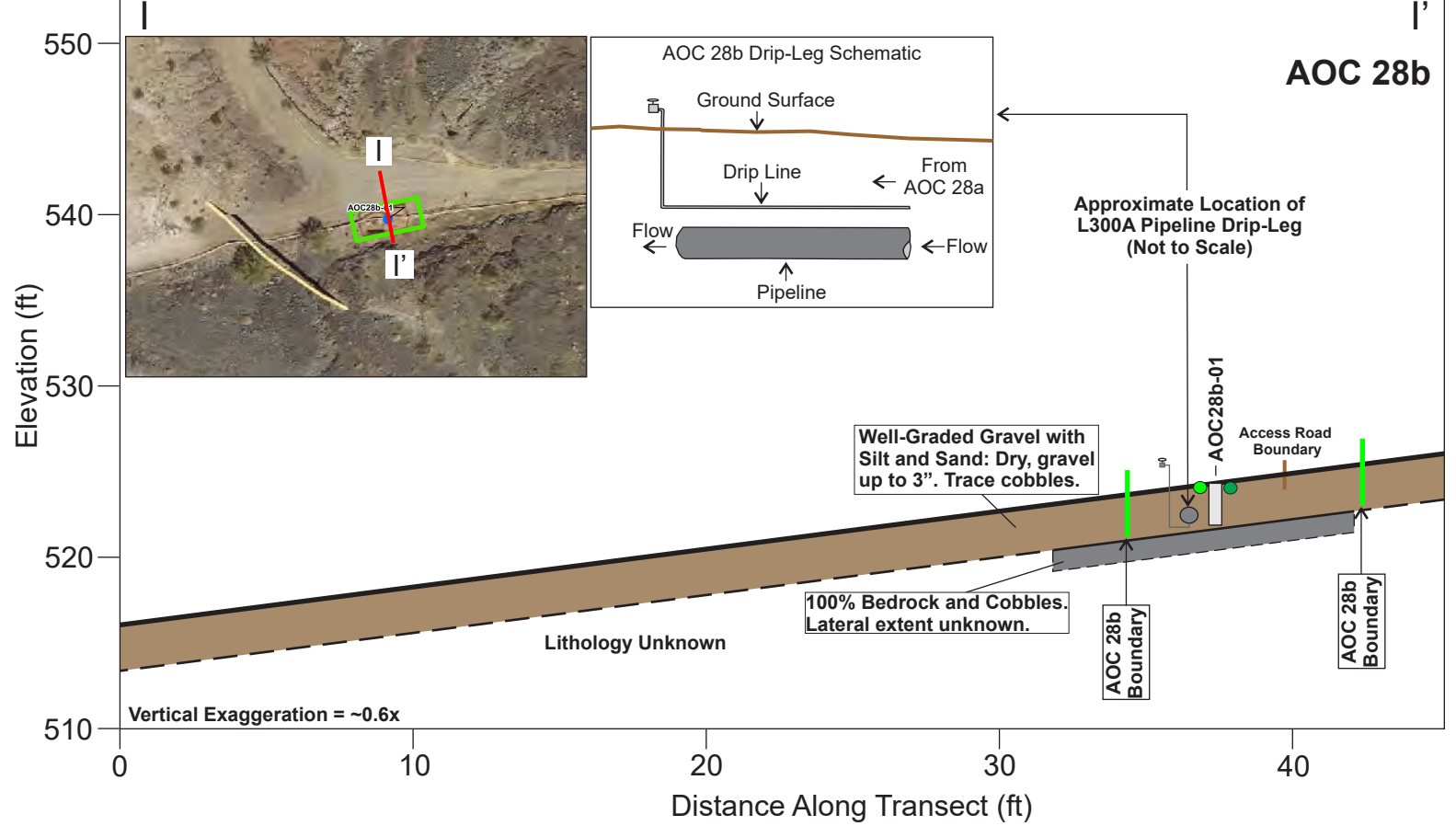
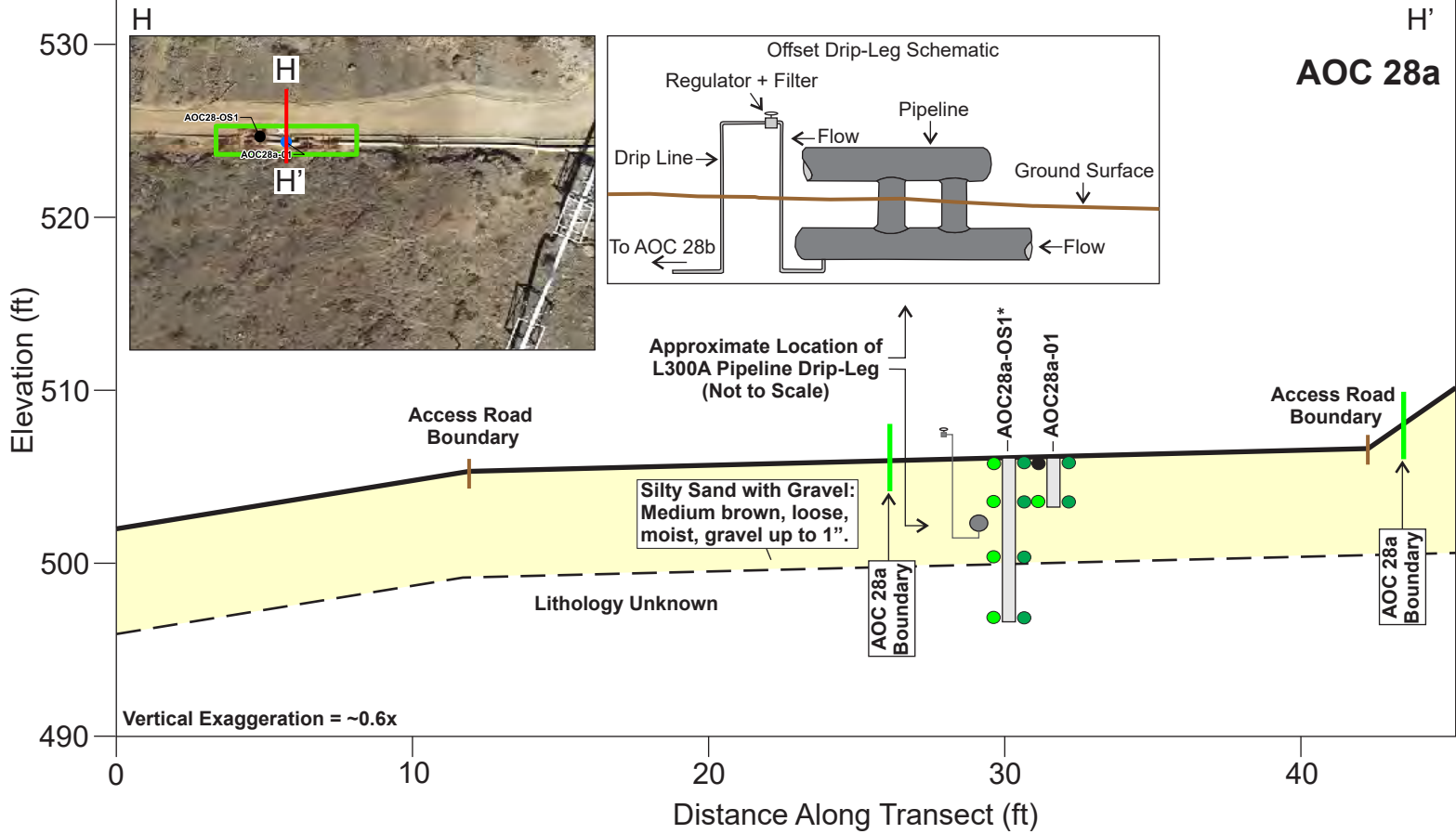
Molybdenum mg/kg

○ Analytical Soil Sample
● Soil Concentration > Background (1.37 mg/kg)

Notes:

*Samples are offset from transect and are projected onto section to show data. See inset maps for actual sample locations.
-Bottom Tap Drip at AOC 28d was removed in 2021.
-Detailed lithology is shown where information from boring logs is available.

Figure 4-8d
Cross Section Showing Molybdenum Results AOC 28
RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California
JACOBS



LEGEND		TPH as Diesel mg/kg	TPH as Motor Oil mg/kg
	Topography		
	Inferred Lithologic Contact		
	Soil Boring		
	TPH-D'		
	TPH-MO'		

Notes:
 *Samples are offset from transect and are projected onto section to show data. See inset maps for actual sample locations.
 †TPH-D - Total Petroleum Hydrocarbons (TPH) as Diesel, TPH - MO - TPH as Motor Oil.
 -Detailed lithology is shown where information from boring logs is available.

Notes Continued:
 -Bottom Tap Drip at AOC 28d was removed in 2021.

Figure 4-8e
Cross Section Showing TPH - Diesel and TPH - Motor Oil Results
AOC 28
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS

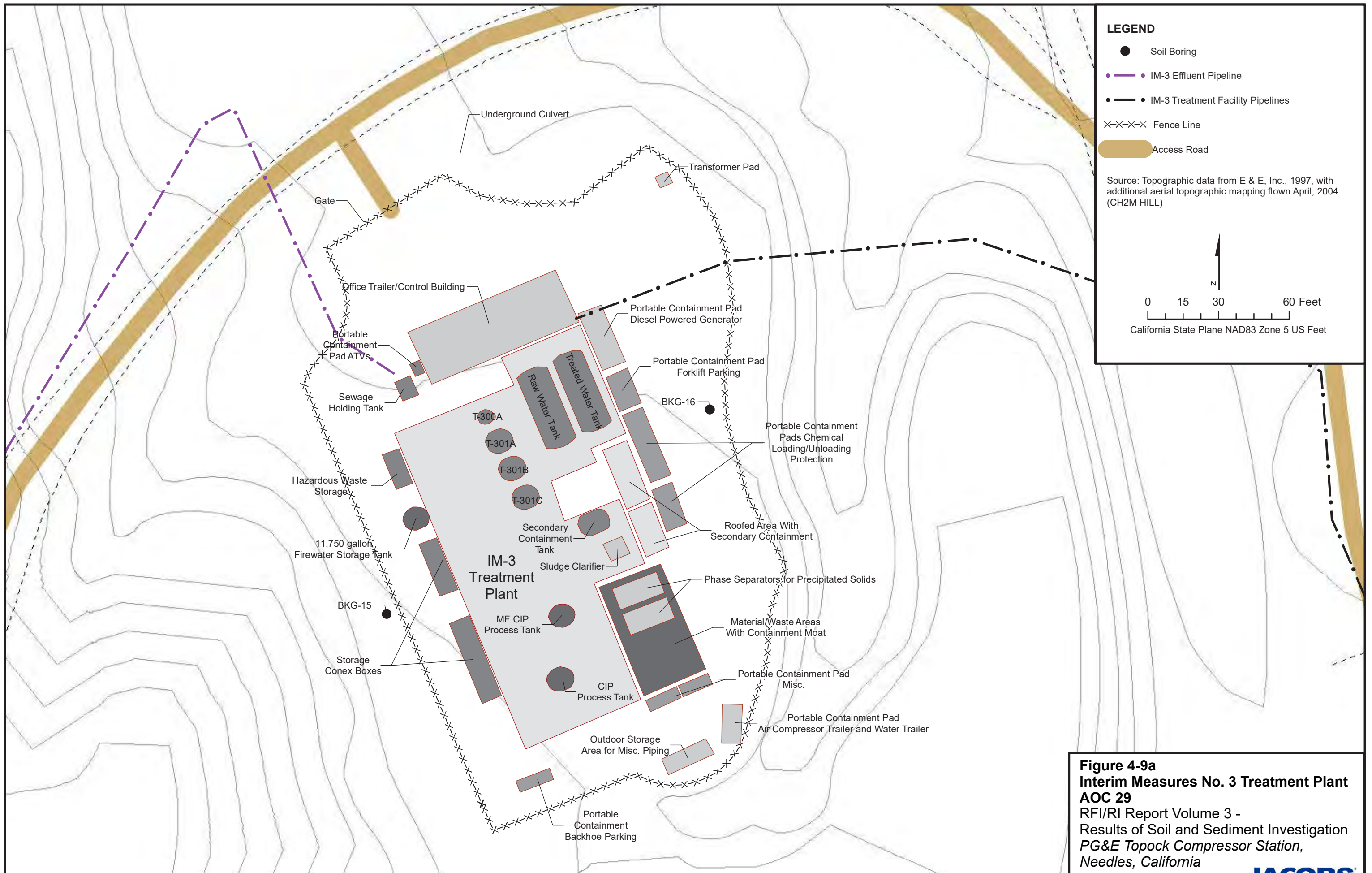
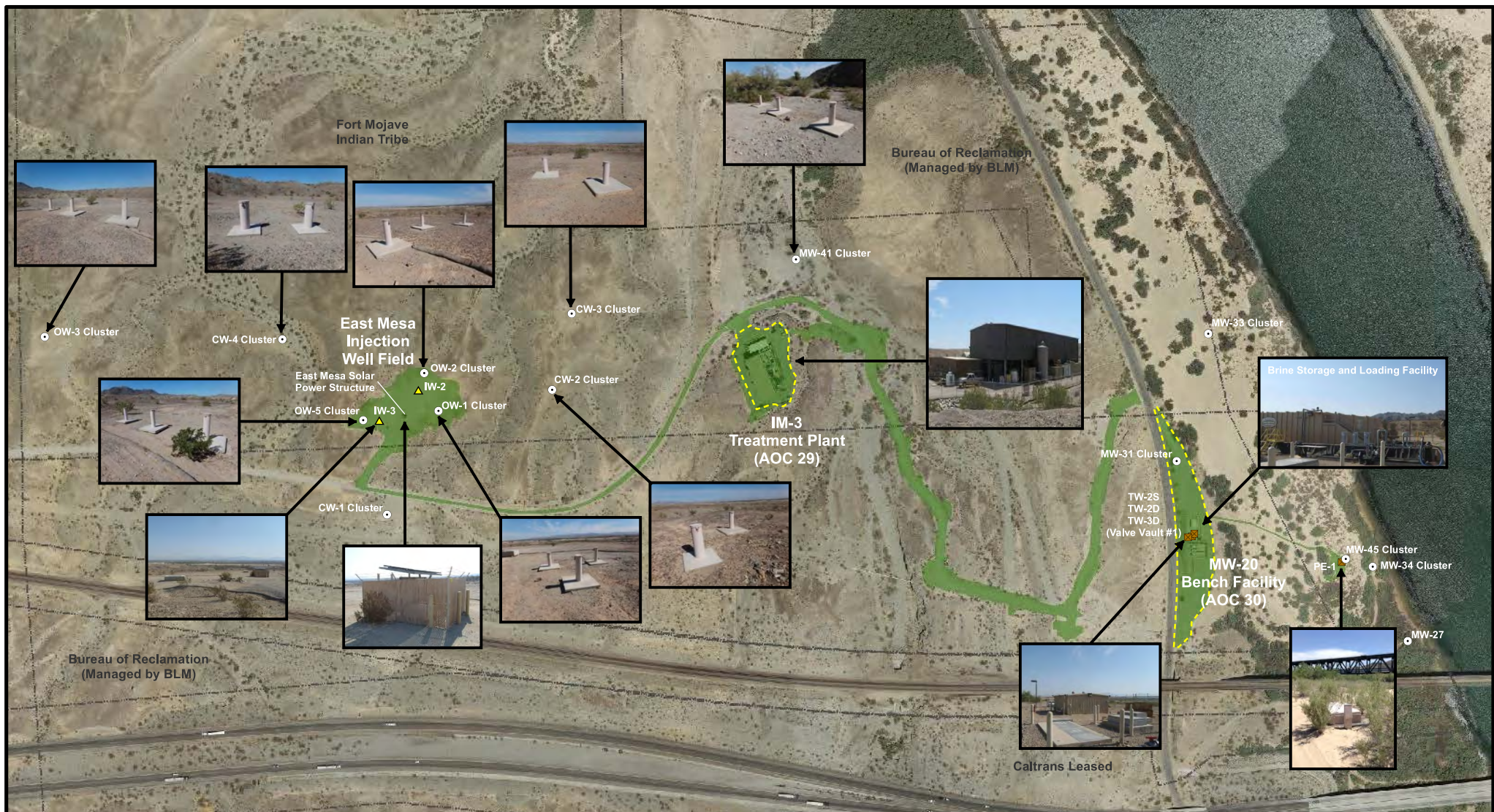


Figure 4-9a
Interim Measures No. 3 Treatment Plant
AOC 29
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
PG&E Topock Compressor Station,
Needles, California





LEGEND

- Monitoring Well
- Extraction Well
- Injection Well
- Area of Concern (AOC) Boundary
- Property Boundary
- Primary Work Zone

Notes:

1. All monitoring wells shown are used to monitor IM-3 performance. All monitoring wells have been incorporated in the Final Remedy and will not be decommissioned as part of IM-3 decommissioning.
2. MW-13 is located on FMIT property but is not shown on this map because it is not associated with IM-3. This well was installed in 1997 prior to the conceptualization of IM-3.
3. Three tanks, truck lane, and associated pumps and piping (existing Brine Storage and Loading Facility) on MW-20 Bench has been incorporated in the Final Remedy and will not be decommissioned as part of IM-3 decommissioning.

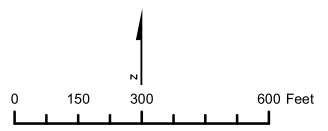
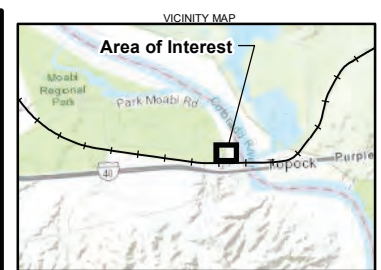
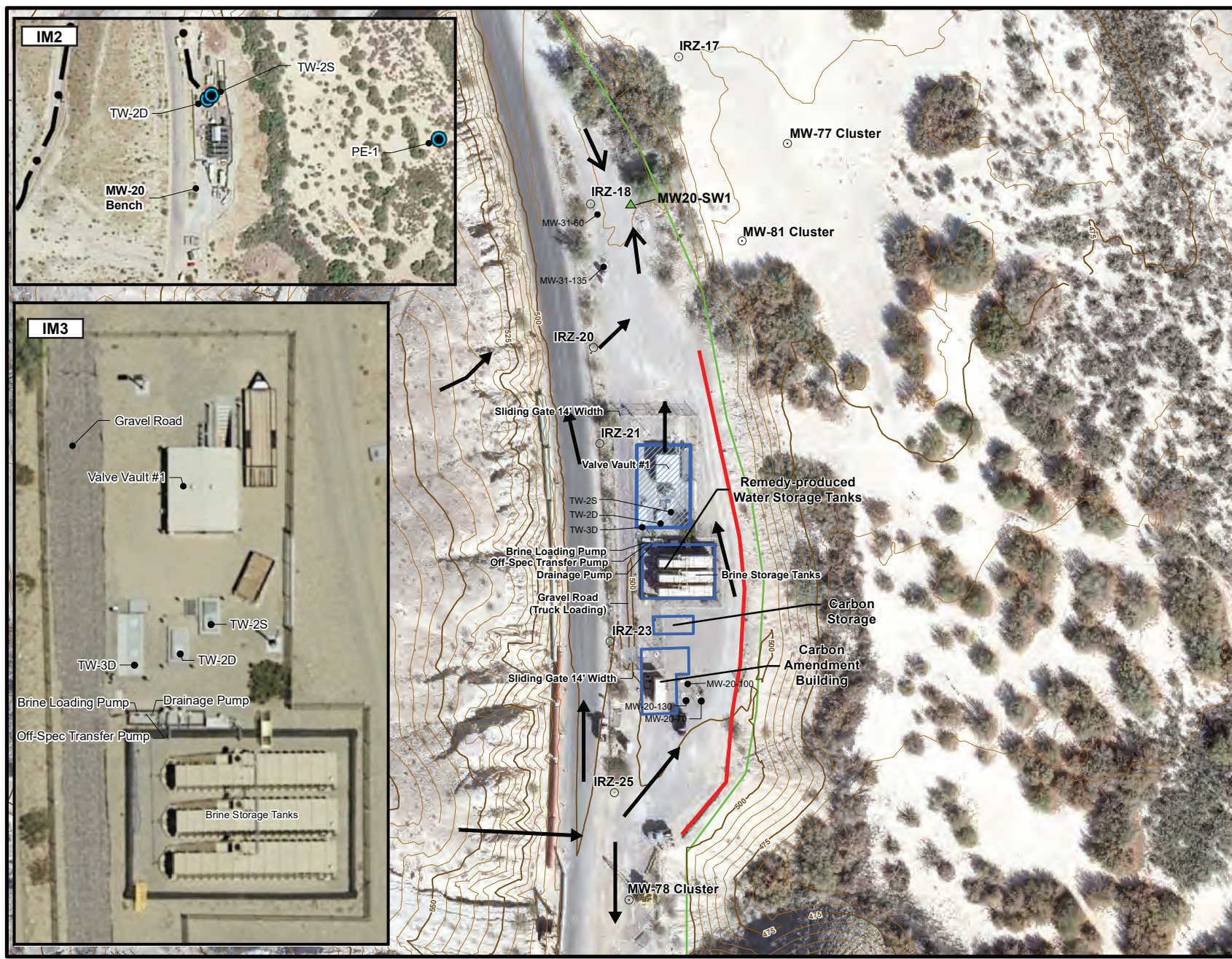
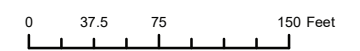


Figure 4-9b
IM-3 SYSTEM LOCATIONS
 IM3 DECOMMISSIONING, REMOVAL,
 AND RESTORATION WORK PLAN
 PG&E TOPOCK COMPRESSOR STATION,
 NEEDLES, CALIFORNIA

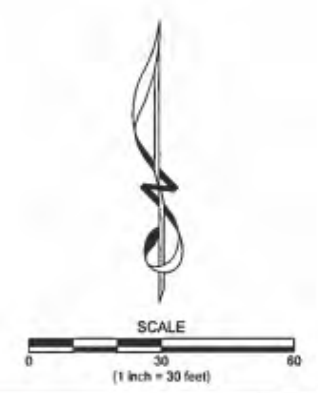
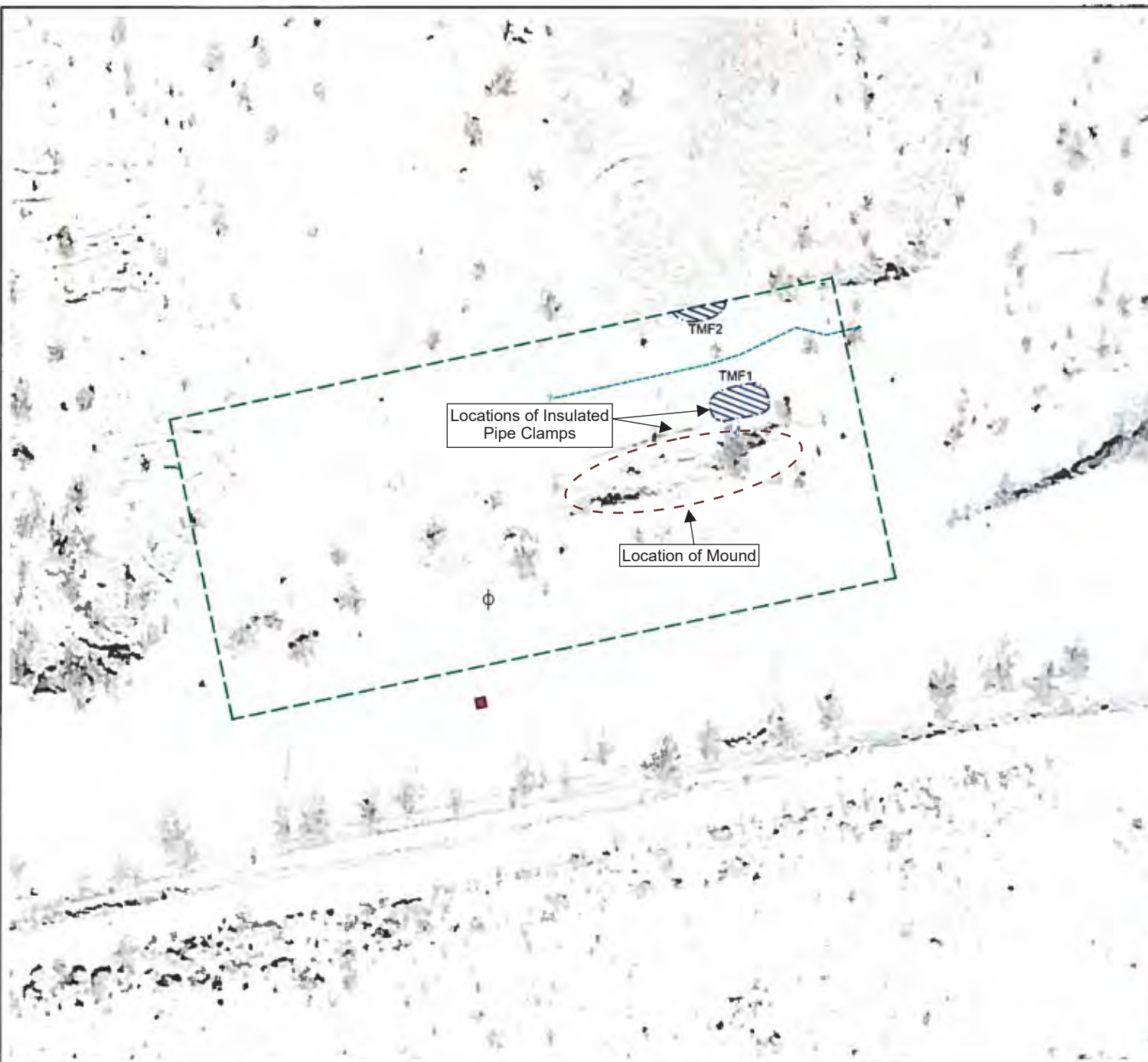


- LEGEND**
- Remediation Monitoring Well
 - Remediation Well
 - ▲ Estimated Surface Water Discharge Location
 - 2" Berm
 - ← Estimated Surface Water Flow Direction
 - Topographic Contour 25-foot Interval
 - Topographic Contour 5-foot Interval
 - Facilities
 - ▨ Structures are related to past IM-3 operation and will be removed as part of future IM-3 decommissioning.
 - AOC 30 Boundary
 - Existing Well
 - Contaminated Groundwater Pipeline



Note: There is an existing 2-inch earthen berm along the eastern and southeastern perimeter of the MW-20 Bench. This berm prevents storm water run-off from the bench to the floodplain.

Figure 4-10
MW-20 Bench Facility Features
AOC 30
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
PG&E Topock Compressor Station,
Needles, California

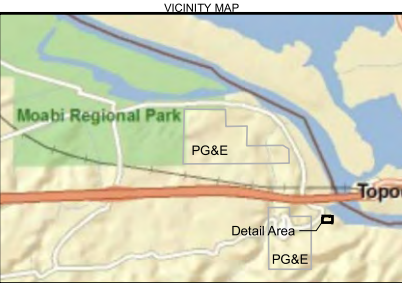
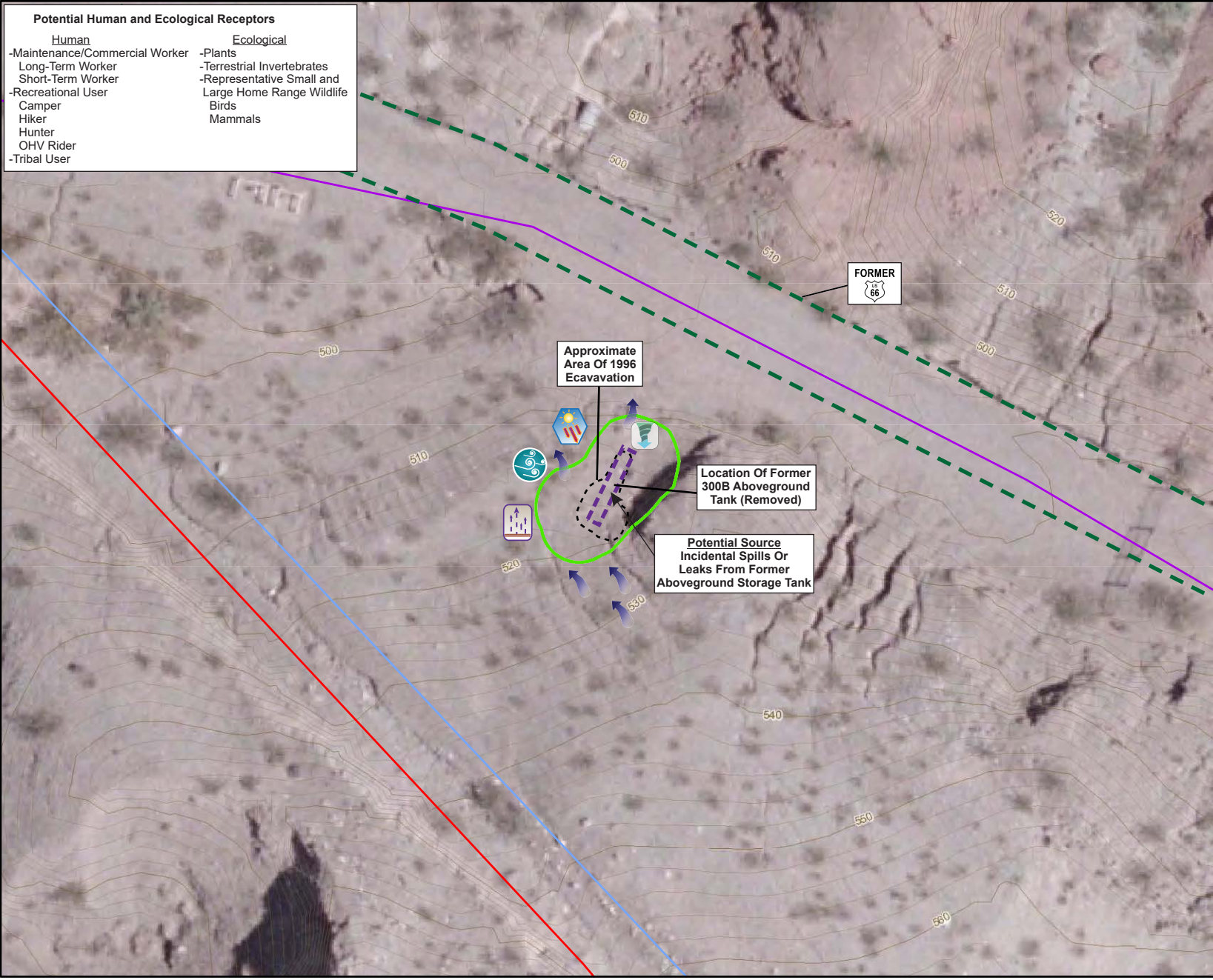


LEGEND	
	LIMITS OF GEOPHYSICAL SURVEY
	TOTAL MAGNETIC FIELD ANOMALY
	LINEAR METAL DETECTOR ANOMALY
	UTILITY LINE CONTINUATION (LINE IS SUSPECTED TO CONTINUE BEYOND DETECTED LOCATION)
	UTILITY LINE NOT DETECTED BEYOND LOCATION (LINE MAY TERMINATE OR CONTINUE)
	METAL POST
	SIGN POST
	UTILITY VAULT

	GEOPHYSICAL SURVEY MAP AREA UA-1A PG&E TOPOCK COMPRESSOR STATION	
	LOCATION: NEEDLES, CALIFORNIA	
	CLIENT: GROUNDWATER PARTNERS, INC.	
	NORCAL GEOPHYSICAL CONSULTANTS INC.	
JOB # 15-1114.01	DATE: DEC 2015	PLATE 4A
DRAWN BY: G. RANDALL	APPROVED BY: DTH	

Figure 4-12
Geophysical Survey Map, Area - UA-1A (2015)
UA-1
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California

- Potential Human and Ecological Receptors**
- | Human | Ecological |
|--------------------------------|---|
| -Maintenance/Commercial Worker | -Plants |
| -Long-Term Worker | -Terrestrial Invertebrates |
| -Short-Term Worker | -Representative Small and Large Home Range Wildlife |
| -Recreational User | -Birds |
| Camper | Mammals |
| Hiker | |
| Hunter | |
| OHV Rider | |
| -Tribal User | |



- LEGEND**
- Mojave Pipeline
 - PG&E Pipeline
 - SoCal Gas Pipeline
 - UA-2 / 300B Boundary
- Potential Release Mechanisms**
- Infrequent Surface Water Runoff
 - Infiltration (Site-wide)
 - Windblown Dispersion of Soil (Site-wide)
 - Volatilization (Site-wide)
 - Degradation by Heat/Light (Site-wide)

Note:
Topographic contours shown are in 2 foot intervals.

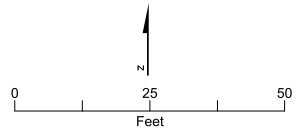


Figure 4-13a
Conceptual Site Model
UA 2
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



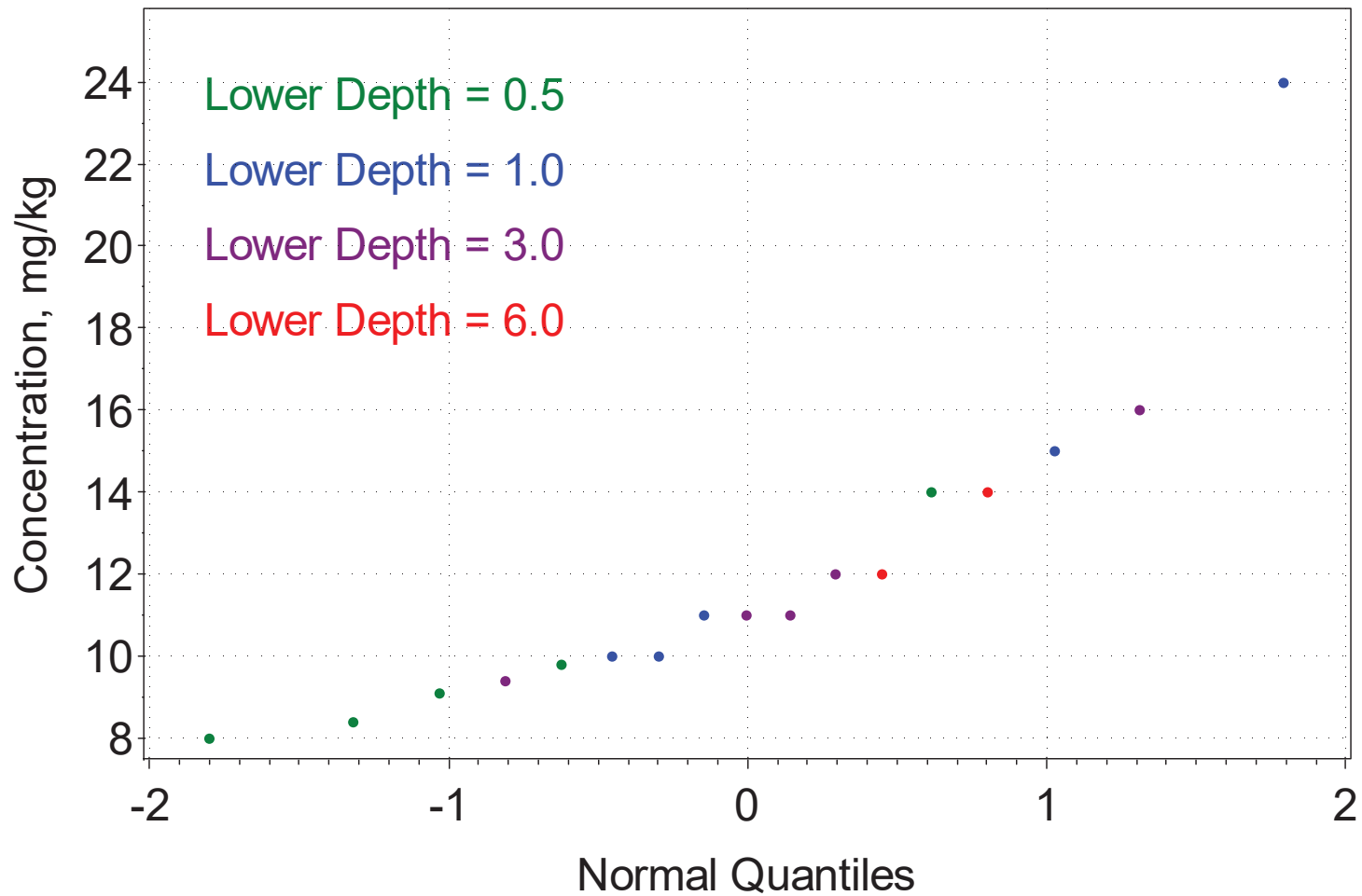
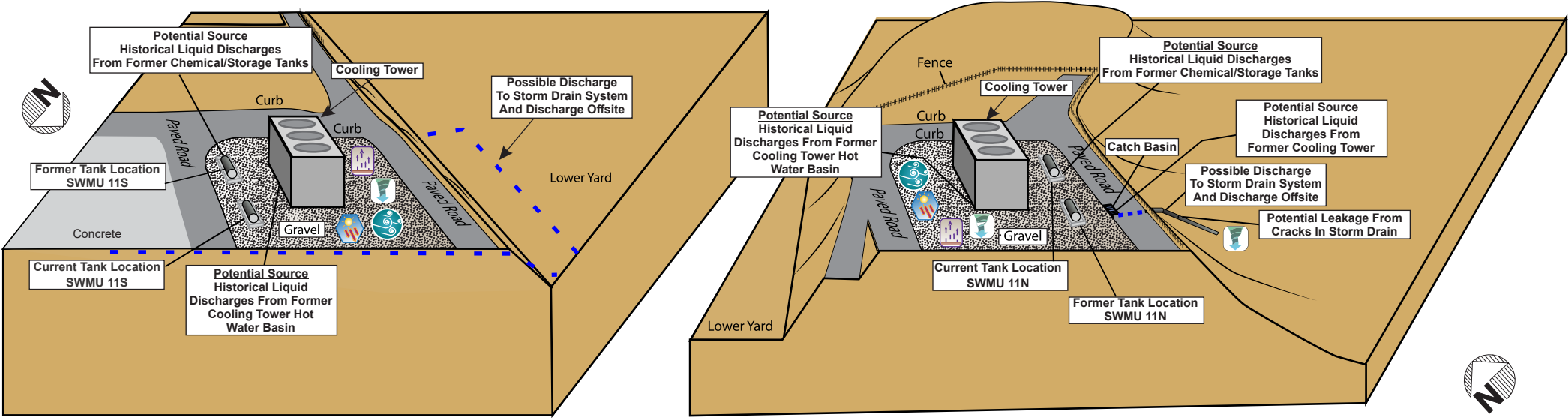


Figure 4-13b
 Probability Plots for Arsenic
 UA2 - Former 300 B Pipeline Liquids
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station,
 Needles, California

Cooling Tower A (Southern Cooling Tower)

Cooling Tower B (Northern Cooling Tower)



NOT TO SCALE

LEGEND

Potential Release Mechanisms

-  Windblown Dispersion
-  Volatilization
-  Degradation by Heat/Light
-  Infiltration



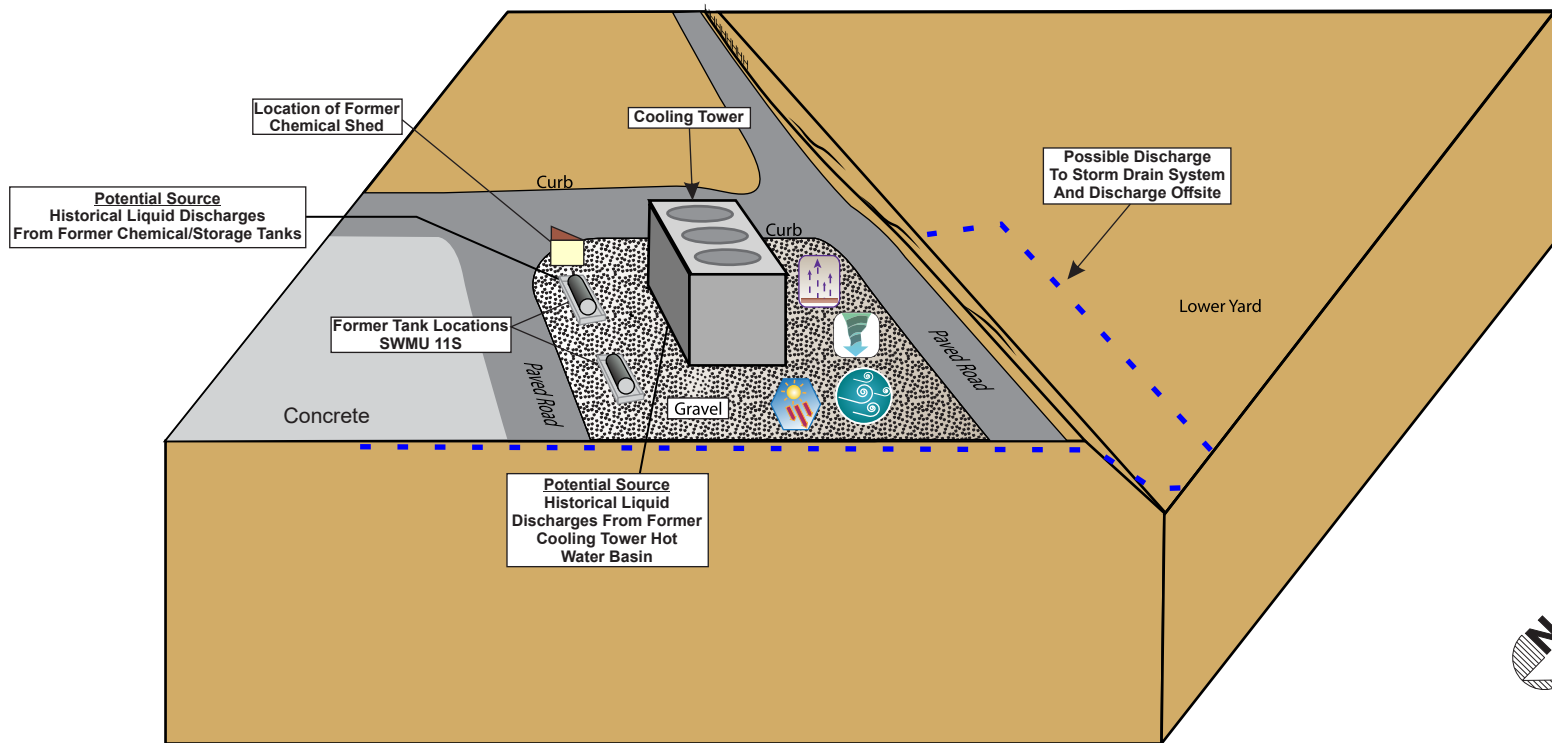
-  Approximate Location of Stormwater Piping Below Ground
-  Soil/Fill (surface/subsurface geology not depicted)

Figure 4-14
Conceptual Site Model
SWMU 11
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California





NOT TO SCALE

LEGEND

Potential Release Mechanisms

-  Windblown Dispersion
-  Volatilization
-  Degradation by Heat/Light
-  Infiltration



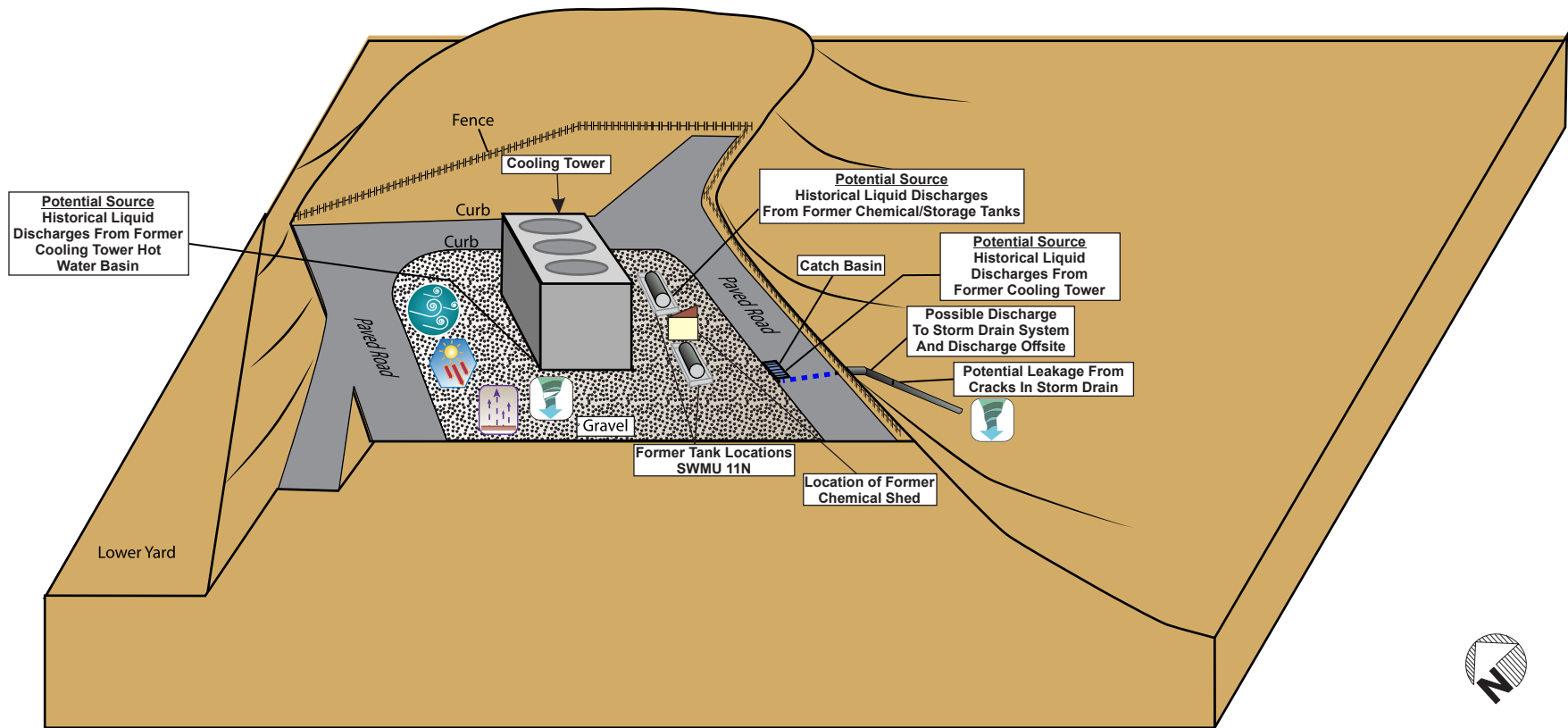
-  Approximate Location of Stormwater Piping Below Ground
-  Soil/Fill (surface/subsurface geology not depicted)

Figure 4-15
Conceptual Site Model
AOC 5
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



NOT TO SCALE

LEGEND

Potential Release Mechanisms

-  Windblown Dispersion
-  Volatilization
-  Degradation by Heat/Light
-  Infiltration



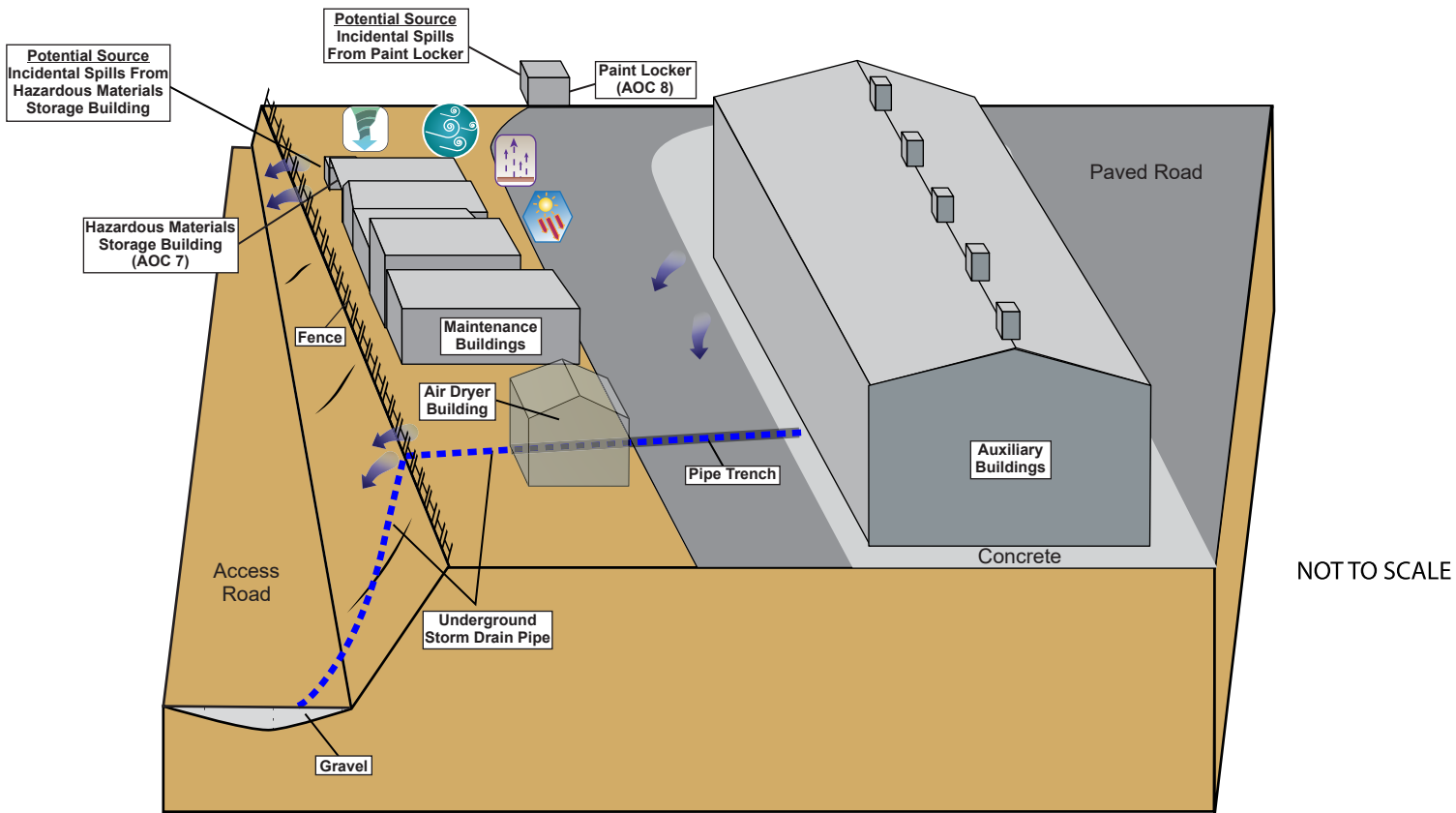
-  Approximate Location of Stormwater Piping Below Ground
-  Soil/Fill (surface/subsurface geology not depicted)

Figure 4-16
Conceptual Site Model
AOC 6
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND

Potential Release Mechanisms

-  Windblown Dispersion
-  Volatilization
-  Degradation by Heat/Light
-  Infiltration
-  Infrequent Surface Water Runoff



-  Approximate Location of Stormwater Piping Below Ground
-  Soil/Fill (surface/subsurface geology not depicted)



Figure 4-17
Conceptual Site Model
AOC 7 and AOC 8
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



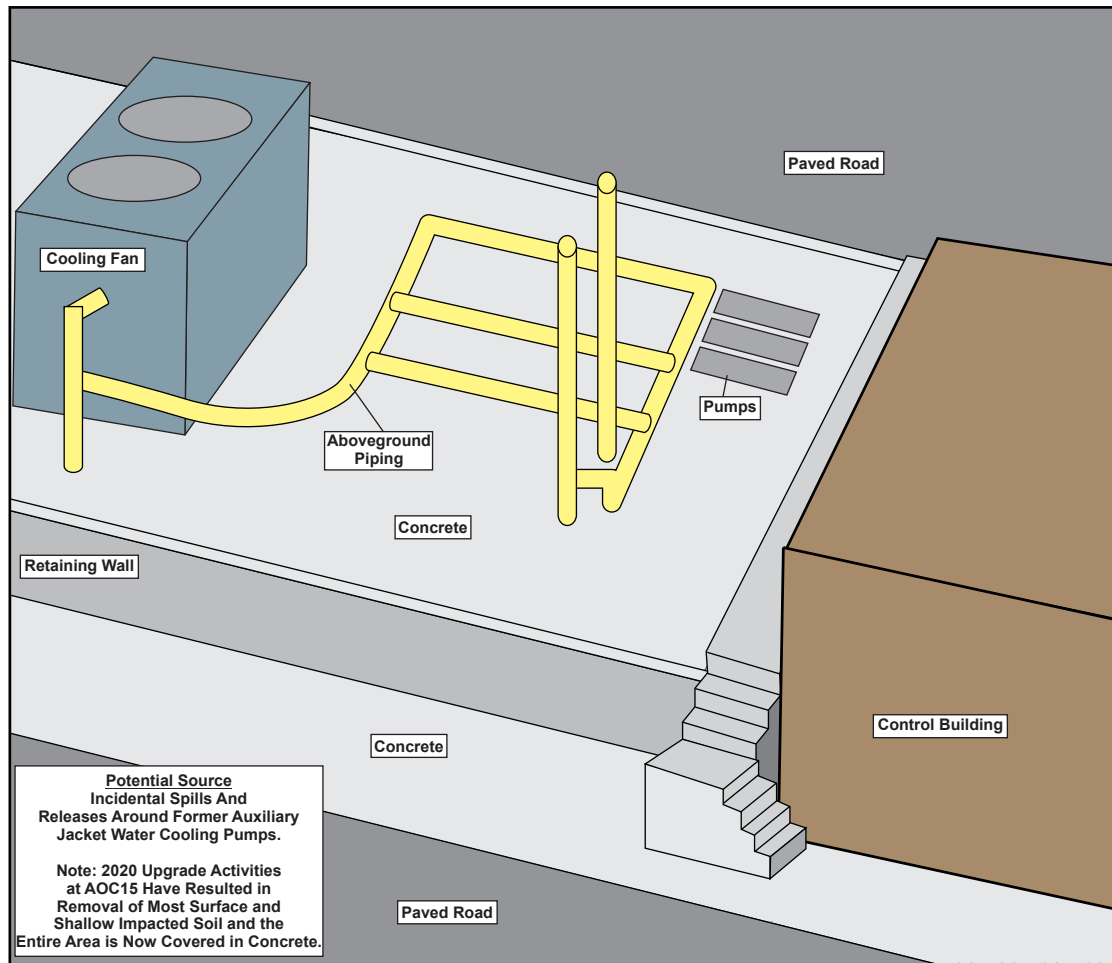
LEGEND

- Soil Sample Location
- ▲ Soil Gas Sample Location
- Property Boundary
- Area of Concern
- Solid Waste Management Unit
- Topock Compressor Station Fence Line
- Areas with No Pavement or Gravel

Note:
 Topographic contours shown are in 2-foot intervals.
 Locations labeled in **VIOLET** were part of the 2017 and later data.
 Locations labeled in **BLUE** were part of the 2015-2016 data.
 Locations labeled in **BLACK** were part of the pre-2015 data.

Figure 4-18
AOC 13 Soil and Soil Gas Sampling Locations
 RFI/RI Report, Volume 3 –
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



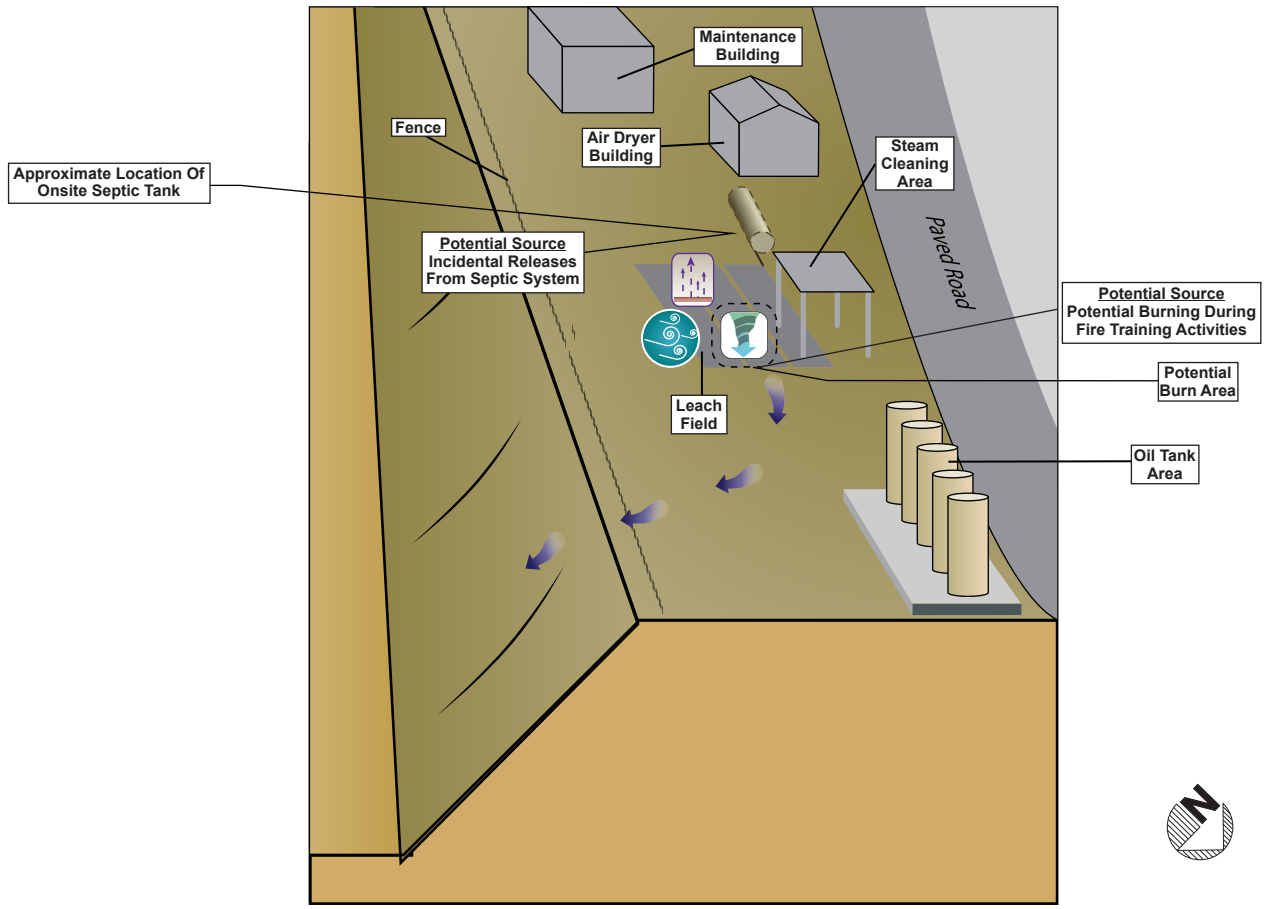


NOT TO SCALE

Note:
-Drawing of aboveground piping is schematic and
is not representative of actual piping.



Figure 4-19
Conceptual Site Model
AOC 15
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



NOT TO SCALE

LEGEND

Potential Release Mechanisms



-  Infiltration
-  Windblown Dispersion
-  Infrequent Surface Water Runoff
-  Volatilization

Figure 4-20a
Conceptual Site Model
AOC 17 and AOC 33
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



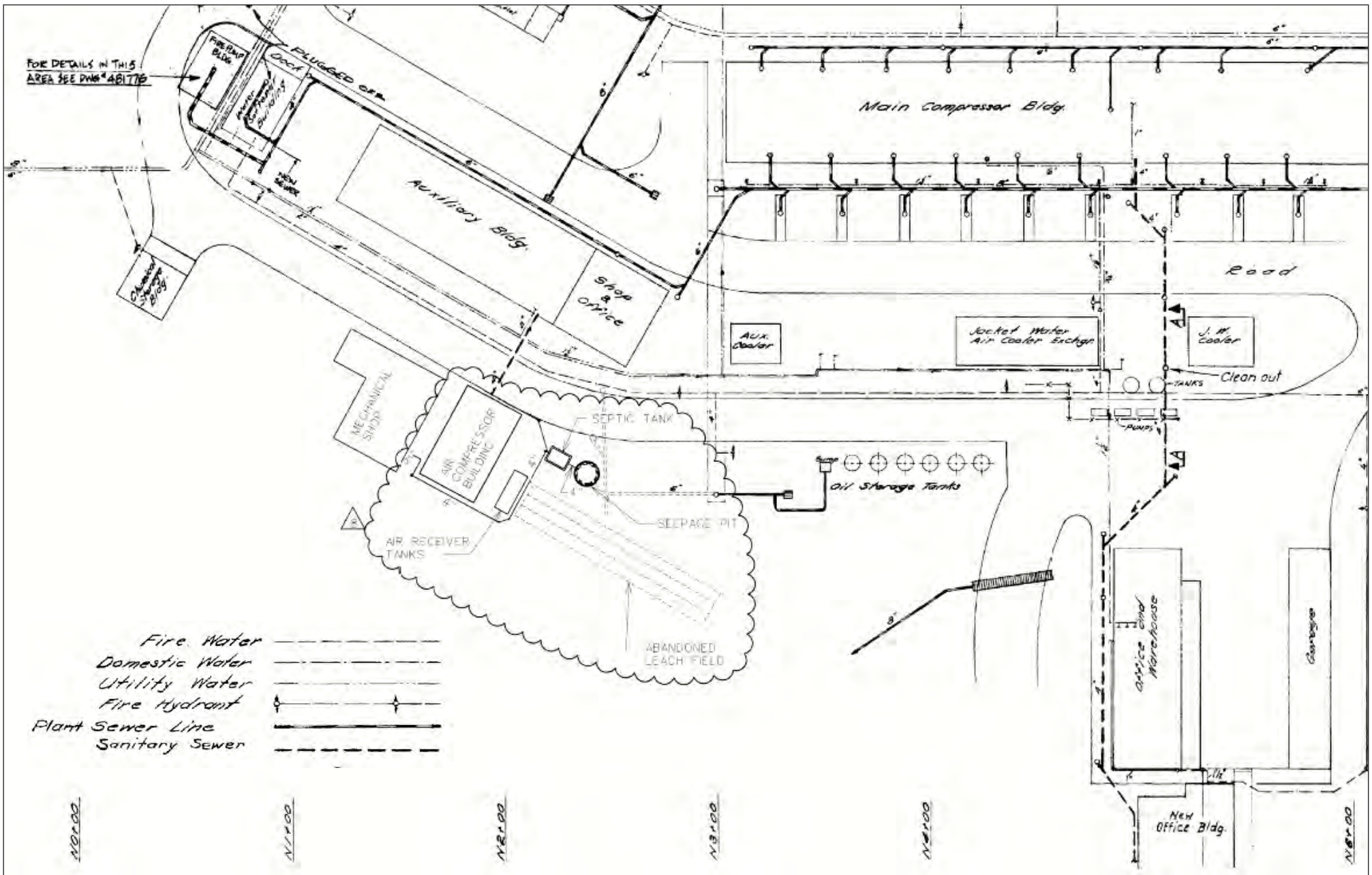


Figure 4-20b
 Engineering Drawings of Former Septic System
 Drawing No. 482629, Rev. 07 (1995)
 AOC 17 and AOC 33
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California

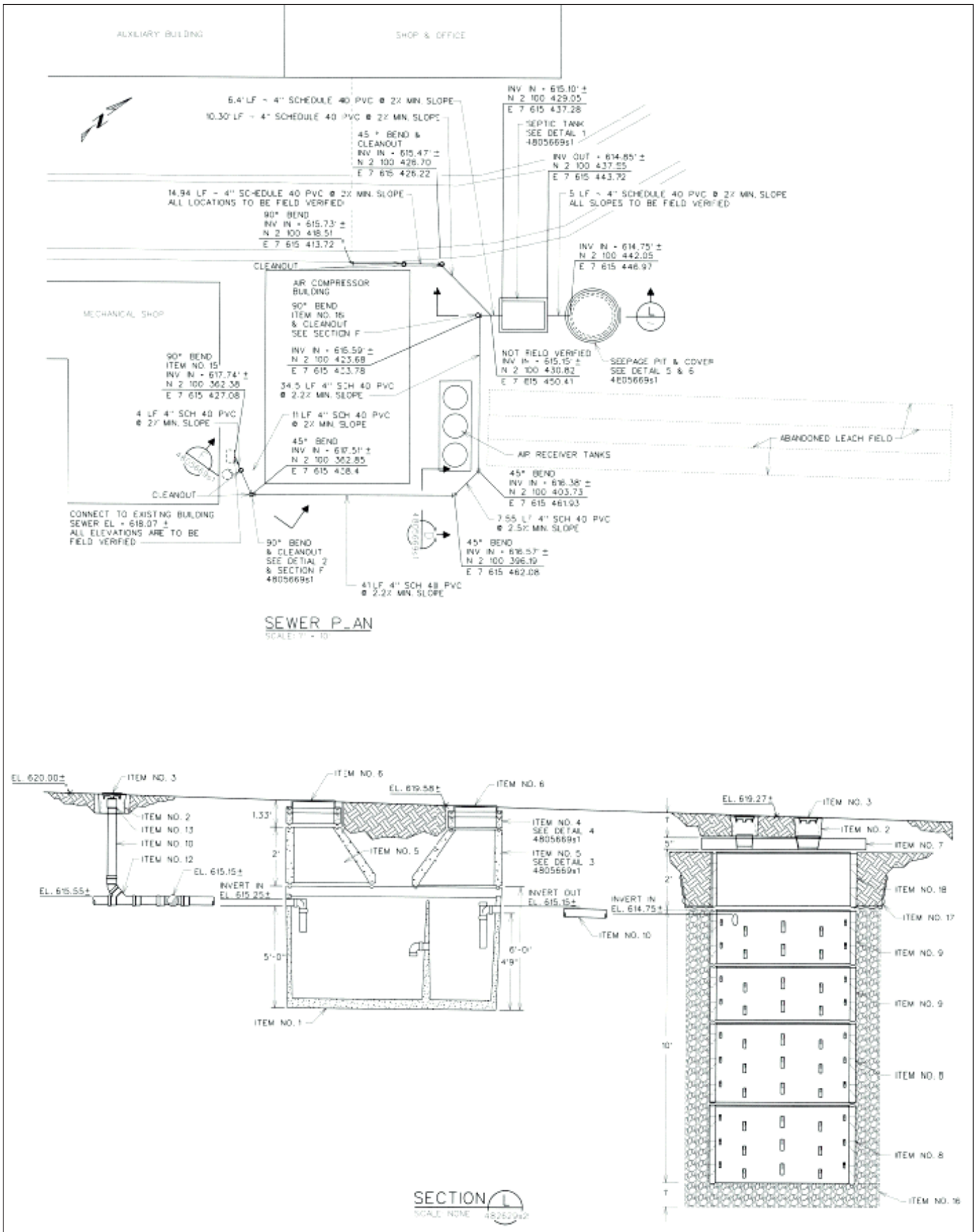
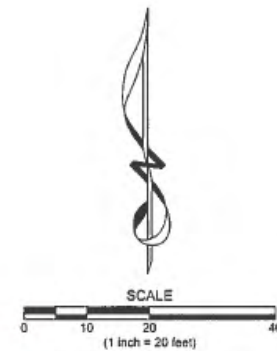


Figure 4-20c
Engineering Drawings of Current Septic System
Drawing No. 482629, Rev. 02 (2020)
AOC 17 and AOC 33
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LEGEND	
	LIMITS OF GEOPHYSICAL SURVEY
	METAL DETECTOR ANOMALY (POSSIBLE SEPTIC TANK)
	LEACH LINE
	APPARENT UTILITY LINE TERMINATION (LINE BECOMES UNDETECTABLE AND IS SUSPECTED TO END)

	GEOPHYSICAL SURVEY MAP AREA AOC-17 PG&E TOPOCK COMPRESSOR STATION	
	LOCATION: NEEDLES, CALIFORNIA CLIENT: GROUNDWATER PARTNERS, INC.	
JOB #: 15-1114.01 DATE: DEC 2015	NORCAL GEOPHYSICAL CONSULTANTS INC. DRAWN BY: G. RANDALL	APPROVED BY: DTH PLATE 5

Figure 4-20d
Geophysical Survey Map, Area AOC - 17 (2015)
AOC 17 and AOC 33
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



Note:
 The piping layout depicted in this figure represents how the system was configured while it was in operation. This piping configuration differs from later layouts as presented in Mittelhauser (1990b) that reflect changes made to piping after the treatment system was removed from service. All piping locations are approximate.

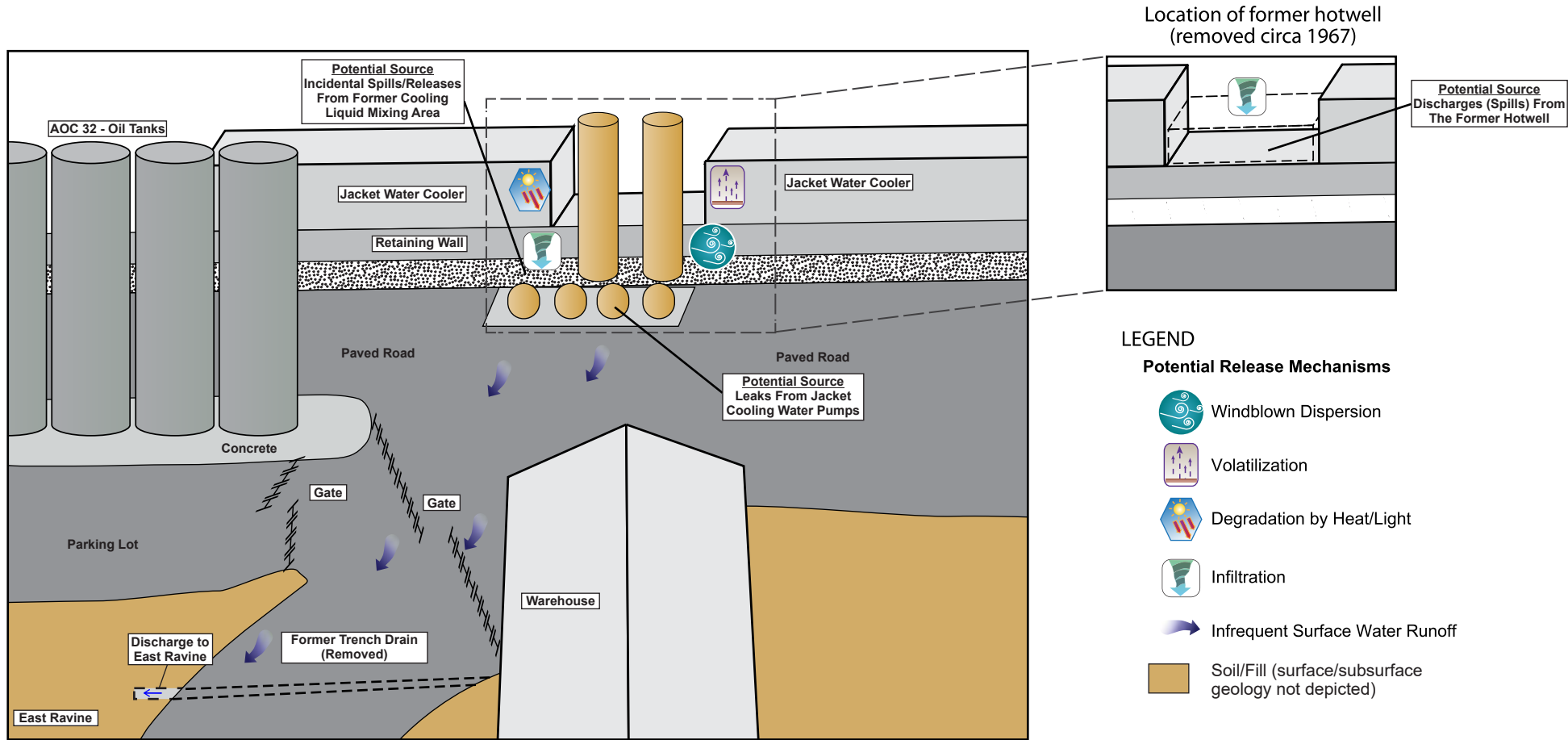
LEGEND

- x— Site Boundary Fence
- - - - Former/Abandoned Transfer Piping
- Active Transfer Piping
- (Cyan dashed) Portions of Piping Not Removed (Left in Place)

0 20 40 80 Feet

N

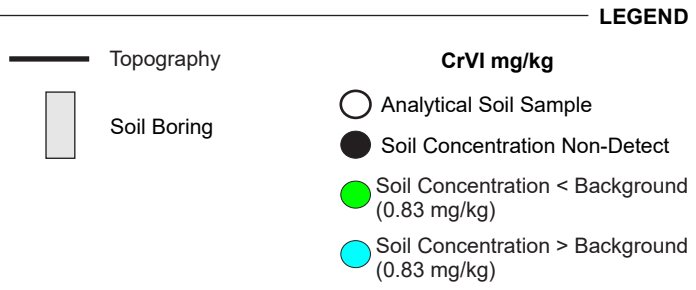
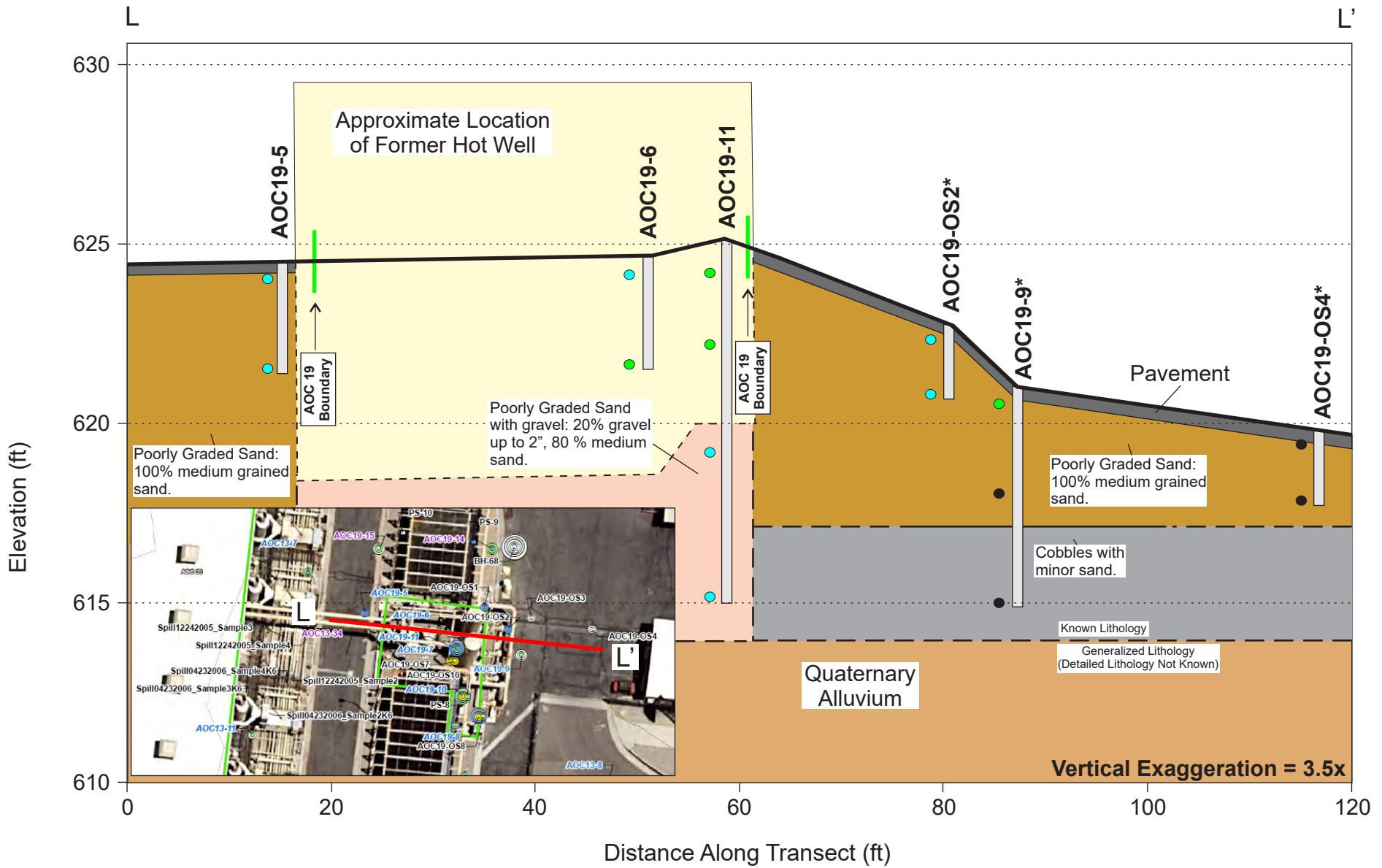
Figure 4-21
Combined Hazardous Waste
Transference Piping
AOC 18
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station,
 Needles, California



NOT TO SCALE



Figure 4-22a
Conceptual Site Model
AOC 19
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



Notes:

- *Samples are offset from transect.
- Detailed lithology is shown where information from boring logs is available. Generalized lithology (from RFI/RI Volume 2 Report) is shown where detailed lithology information is not available.

Figure 4-22b
Cross Section Showing Hexavalent Chromium Results AOC 19
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS

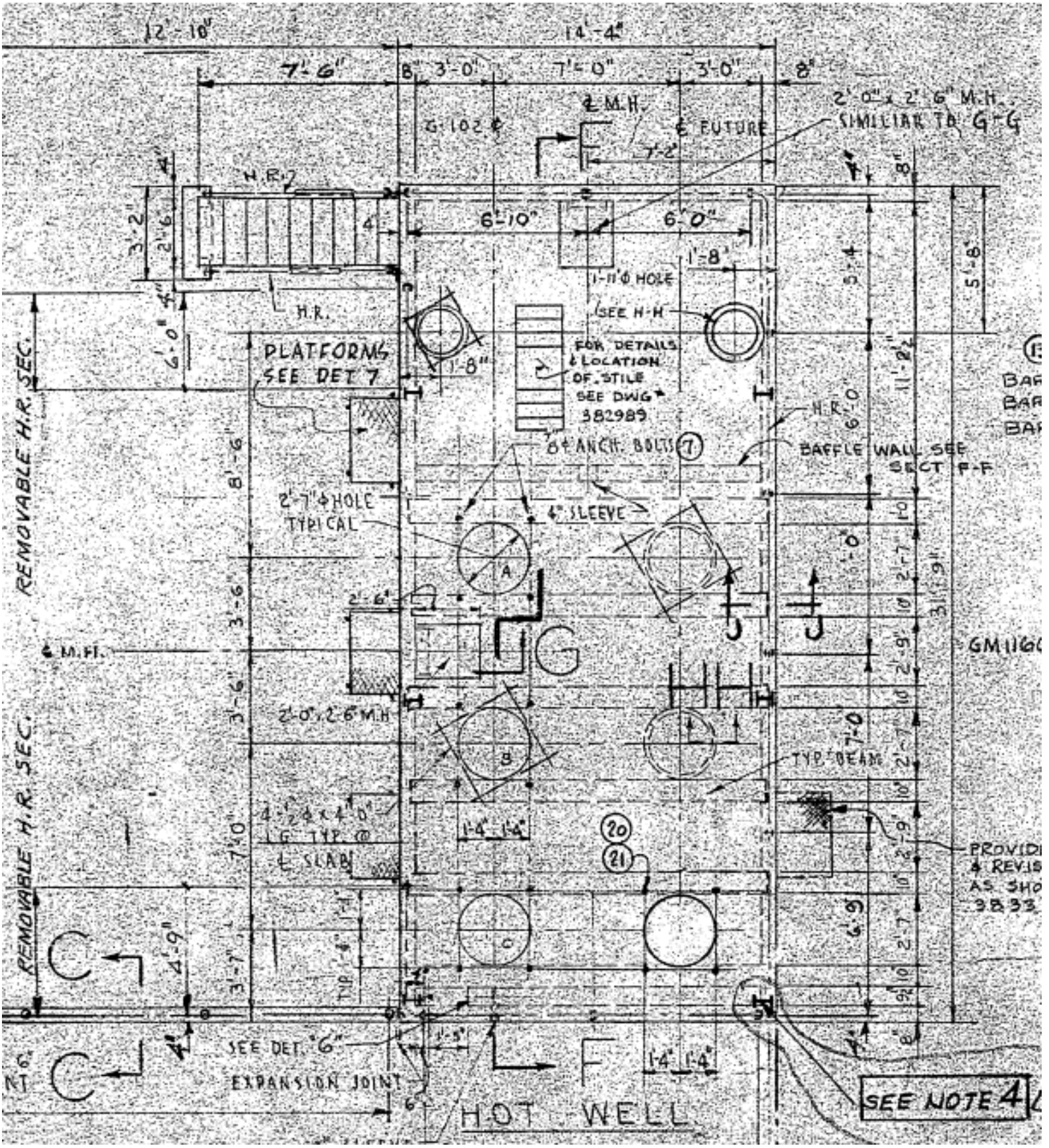


Figure 4-22e
 Scaled 1954 Engineering
 Drawing of Hot Well - Plan View
 AOC 19
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California

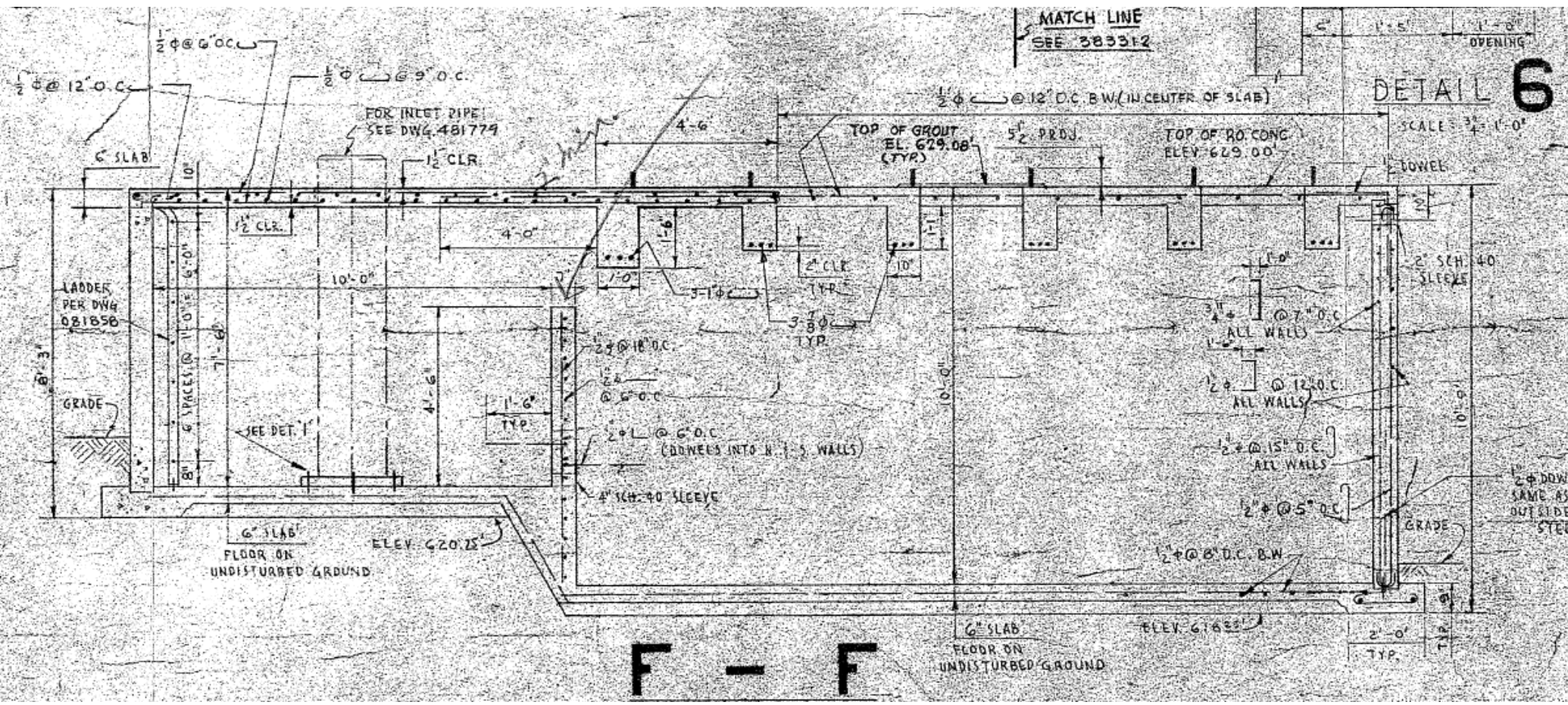
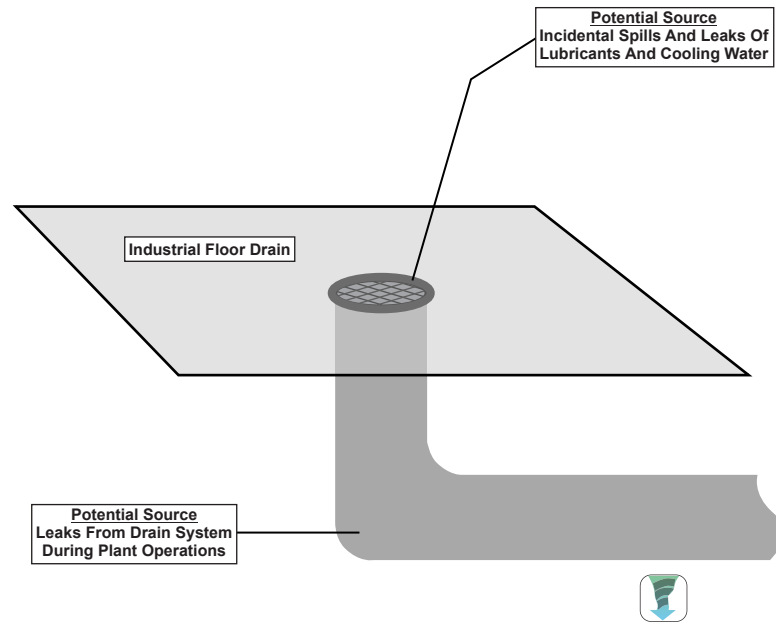


Figure 4-22f
 Scaled 1954 Engineering
 Drawing of Hot Well - Cross Section View
 AOC 19
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California
JACOBS



LEGEND

Potential Release Mechanism

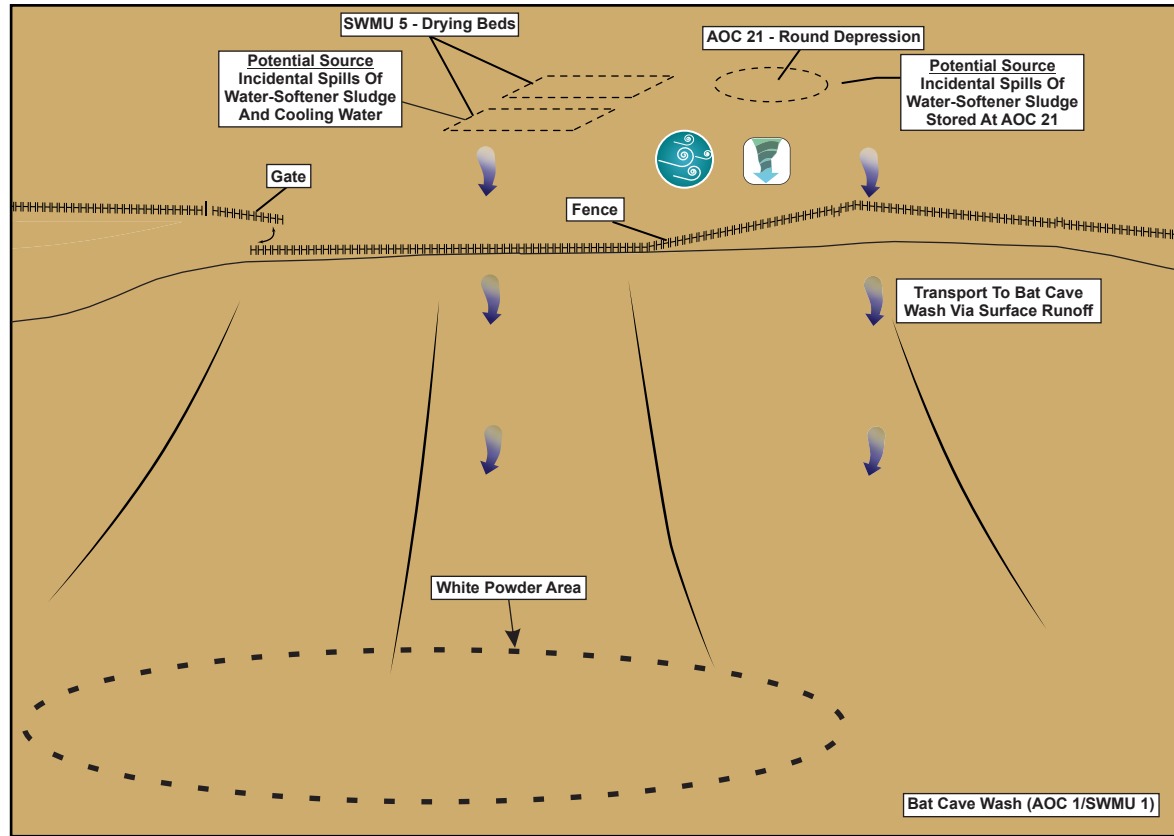


Infiltration

Figure 4-23
Conceptual Site Model
AOC 20

RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California







NOT TO SCALE

LEGEND

Potential Release Mechanisms

 Windblown Dispersion

 Infiltration

 Infrequent Surface Water Runoff

 White Powder Area


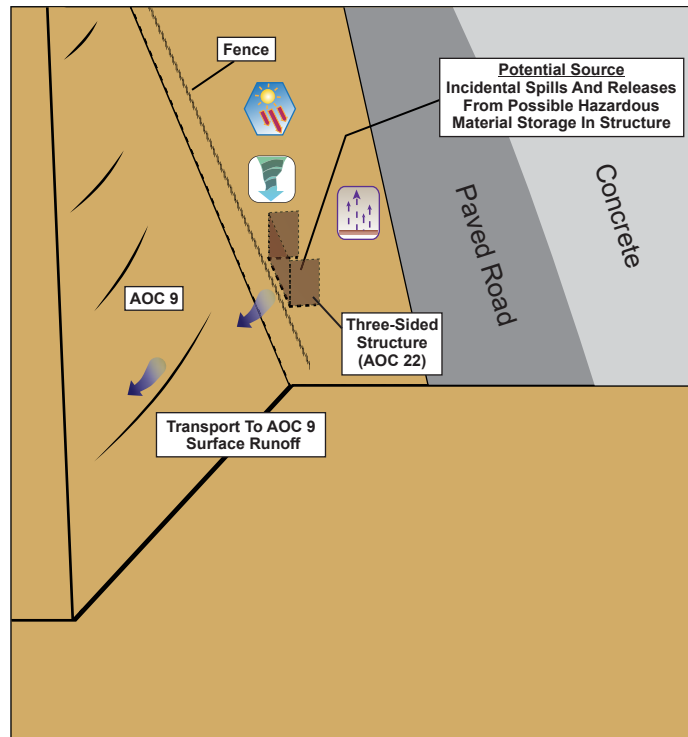
 Soil/Fill (surface/subsurface geology not depicted)



Figure 4-24
Conceptual Site Model
AOC 21
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



NOT TO SCALE

LEGEND

Potential Release Mechanisms



Infiltration



Infrequent Surface Water Runoff



Volatilization



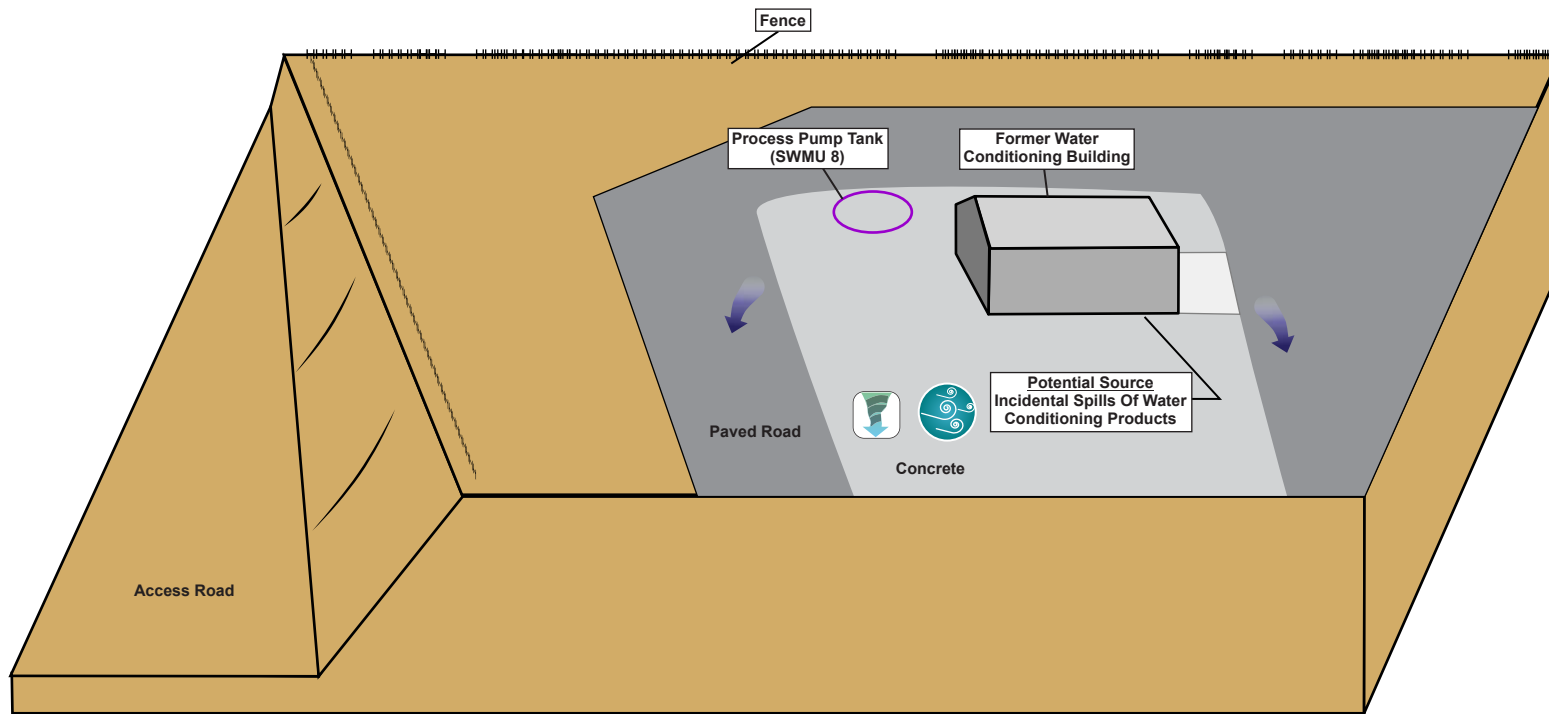
Degradation by Heat/Light



Soil/Fill (surface/subsurface geology not depicted)

Figure 4-25
Conceptual Site Model
AOC 22
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California





NOT TO SCALE

LEGEND

Potential Release Mechanisms



Infiltration



Windblown Dispersion



Infrequent Surface Water Runoff

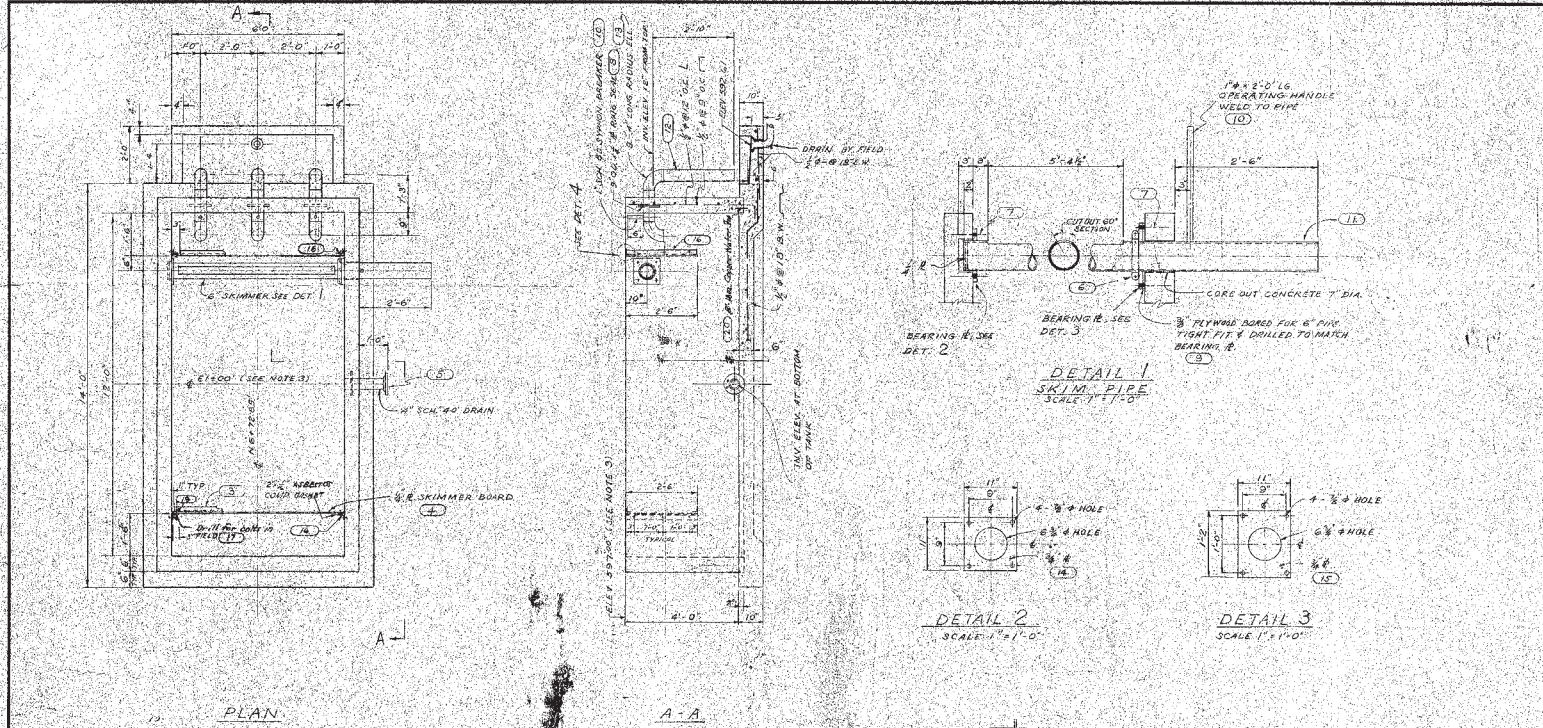


Soil/Fill (surface/subsurface geology not depicted)

Figure 4-26
Conceptual Site Model
AOC 23

RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California





LIST OF MATERIAL		
ITEM NO.	DESCRIPTION	ORDER NO.
1	6 CU. YD. CONCRETE	456
2	140# REIN. STL. AS SHOWN	150,040
3	24 LIN. FT. 1" SCH. 40	150,119
4	18 LIN. FT. 2" SCH. 40	150,119
5	1 1/2" DIA. 1/2" THICK FLANGE P.K.	150,119
6	1 PIPE CLAMP CRANE LEGS DR. ER.	150,119
7	2 1/2" x 1/2" DIA. HEX. BOLT WITH 1/2" CONE WELD	150,047
8	1 1/2" x 1/2" DIA. HEX. BOLT WITH 1/2" CONE WELD	150,119
9	1 1/2" x 1/2" DIA. HEX. BOLT WITH 1/2" CONE WELD	150,119
10	1 1/2" x 1/2" DIA. HEX. BOLT WITH 1/2" CONE WELD	150,119
11	10 LIN. FT. 1" SCH. 40 STL. PIPE	150,119
12	11 LIN. FT. 1" SCH. 40 STL. PIPE	150,119
13	6 1/2" DIA. WT. 15.5 WELD ELL. L. R.	150,119
14	1 PC. PLATE 11 1/2" x 11 1/2" x 1/2"	150,119
15	1 PC. PLATE 11 1/2" x 11 1/2" x 1/2"	150,119
16	10 1/2" x 1/2" FL. L. R.	150,119
17	10 1/2" x 1/2" FL. L. R.	150,047
18	1 1/2" x 1/2" DIA. HEX. BOLT WITH 1/2" CONE WELD	150,119
19	12 1/2" x 1/2" DIA. HEX. BOLT WITH 1/2" CONE WELD	150,047
20	10 1/2" x 1/2" DIA. HEX. BOLT WITH 1/2" CONE WELD	150,119

- DESIGN & CONSTRUCTION NOTES**
- FOR DESIGN & CONSTRUCTION NOTES SEE DWG. NO. 481650
 - REINFR. STL. ON G. OF WALLS & SLAB
 - EAST COORDINATE AND ELEVATION OF STRUCTURE SUBJECT TO CHANGE IN FIELD DETERMINING SPAN GRADE ELEVATION. BOTTOM OF STRUCTURE MUST REST ON FIRM GROUND.
- REFERENCE DRAWINGS**
- | | |
|---|--------|
| PLAN | 481751 |
| DESIGN & CONSTRUCTION NOTES FOR CONCRETE FOUNDATION | 481650 |
| SEWERS & DRAINS | 481755 |
| LOCATION PLAN | 485352 |

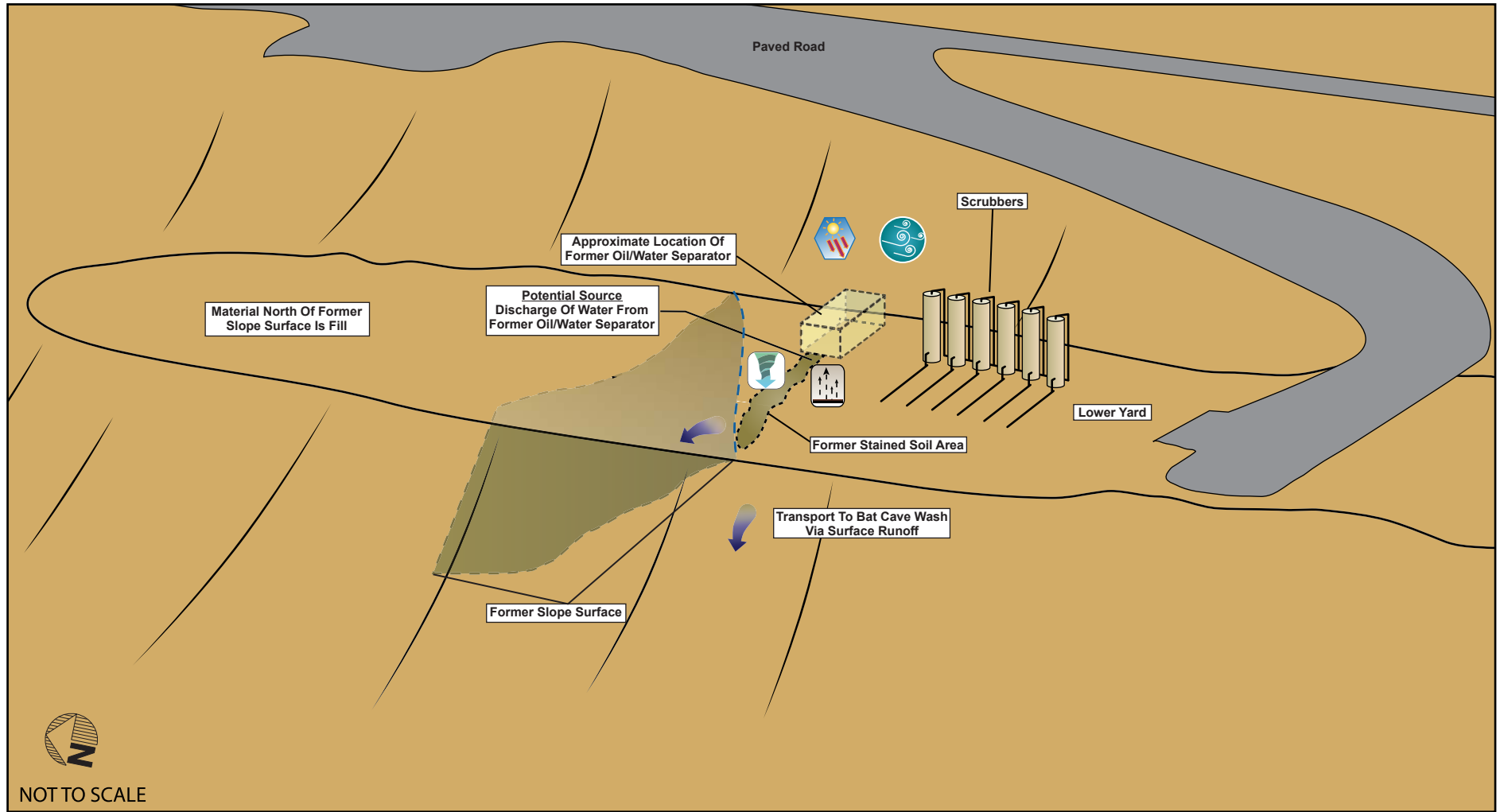
NOTE:
This dwg. was not revised to meet construction changes required for Waste Water Disposal System installation on GM 172520.

APPROVED BY	DATE	BY	DATE
BY	DATE	BY	DATE
BY	DATE	BY	DATE
BY	DATE	BY	DATE

PLAN & DETAILS OF OIL-WATER SEPARATOR TOPOCK COMPRESSOR STATION PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA




SKILL OF MATERIAL SUPERSEDED BY 382956-1



Figure 4-27a
Engineering Drawing No. 382956, Rev. 1 (1970)
AOC 24
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



LEGEND

Potential Release Mechanisms

-  Windblown Dispersion
-  Volatilization
-  Degradation by Heat/Light

-  Infiltration
-  Infrequent Surface Water Runoff



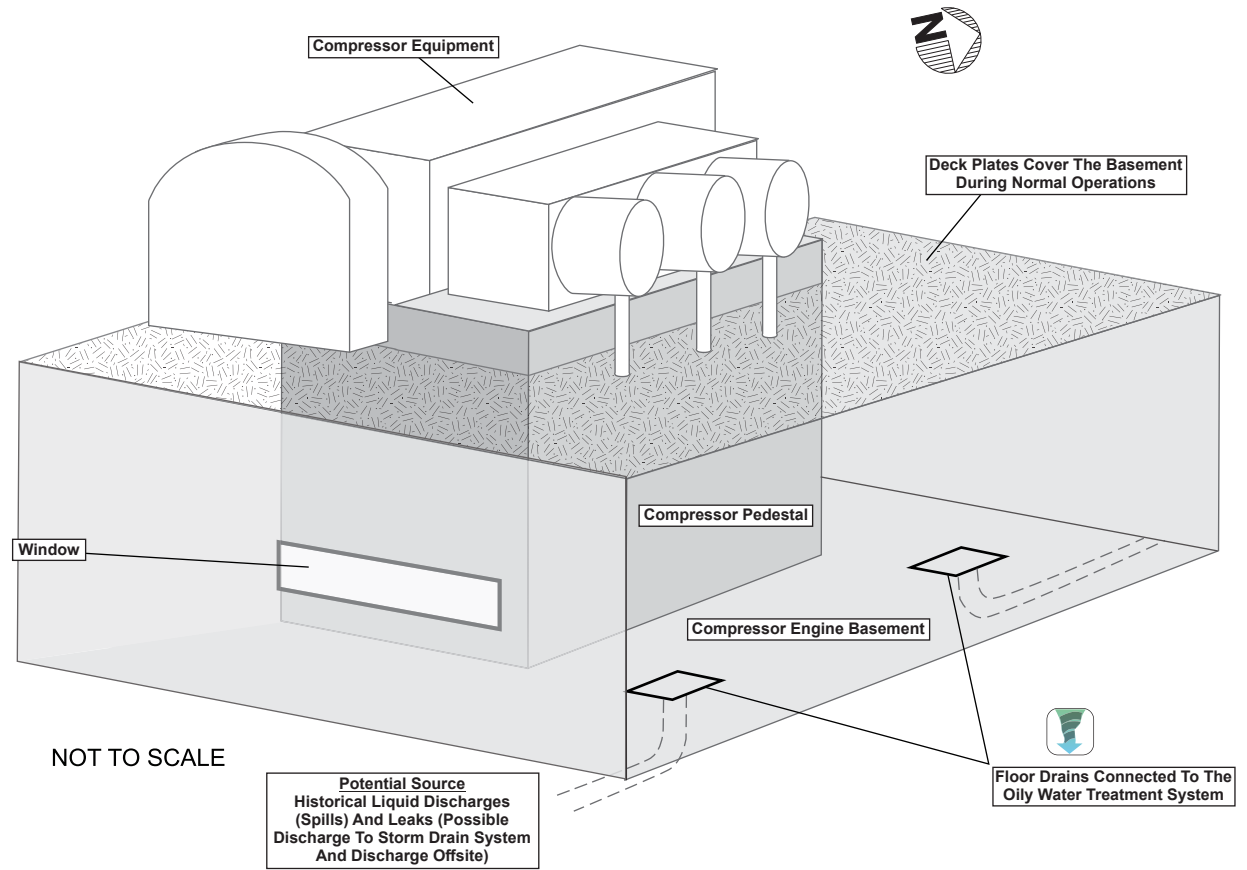
-  Approximate former edge of lower yard (prior to 1990)
-  Soil/Fill (surface/subsurface geology not depicted)

Figure 4-27b
Conceptual Site Model
AOC 24
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



Compressor Engine Schematic



LEGEND

Potential Release Mechanisms



Infiltration

Notes:

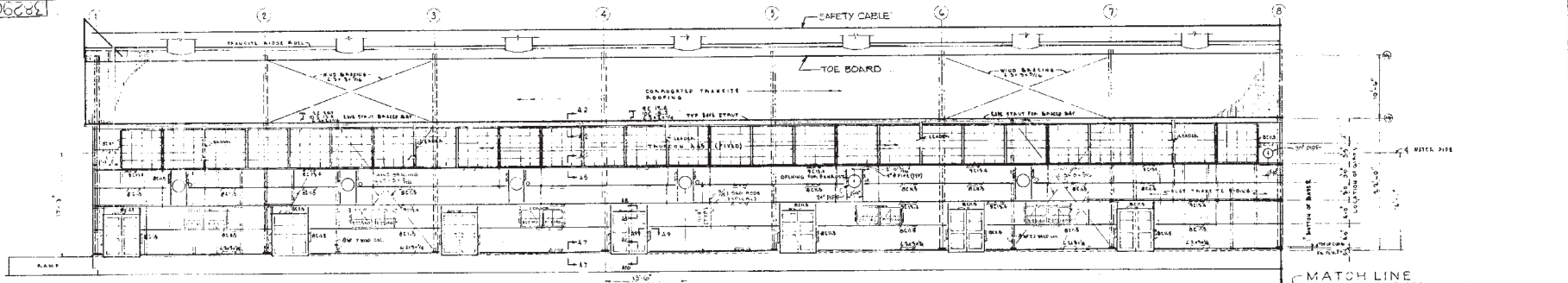
-Engine number designations are shown next to the respective compressor engines.

Figure 4-28a
Conceptual Site Model
AOC 25

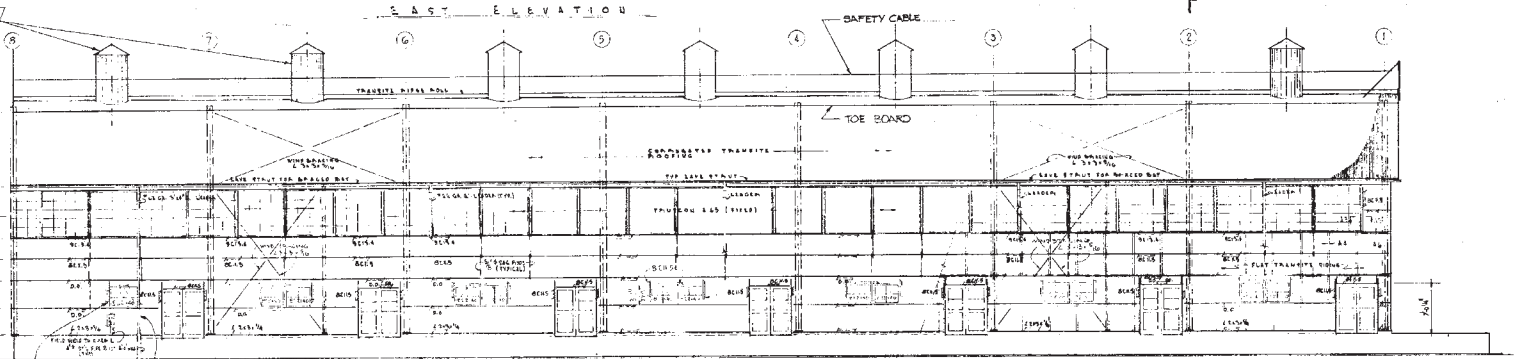
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



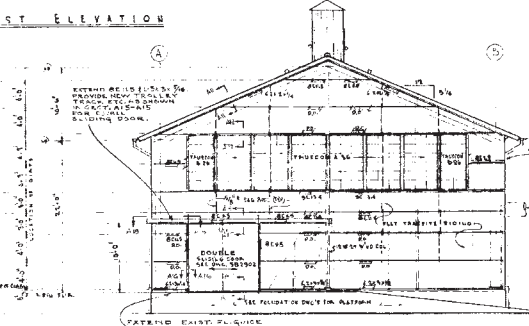
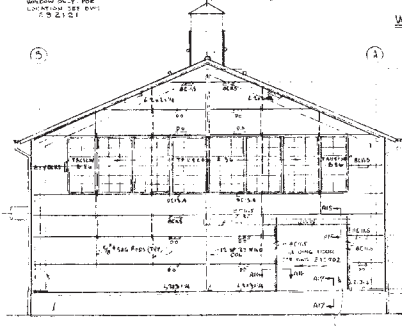
106291



All the original 36 gravity vents have been replaced with 48 Bradford White 48 1/2" x 16" ventilators for ventilator support and flashing details see Dwg. 383306. For further details see Dwg. 383306.



MATCH LINE
SEE DWG NO 383306



NOTE
REVOLE AND RESET EXISTING STEEL FRAMING, TRUSSES AND ROOF AND WINDOWS FROM CENTERLINE TO FOLLOW LOCATIONS SHOWN.

NOTES:
1. NEW WINDOWS ADDED FOR GM-116053 EXPANSION SHALL LINE UP WITH EXISTING WINDOWS AS SHOWN ON EAST & WEST ELEVATIONS.
2. FOR MORE DETAILS, SPECIFICATIONS, GENERAL NOTES & Y/M SEE DWGS: 383306 & 383307.

REVISION NOTES:
A REVISION NOTED IN ELEVATION OF NORTH WALL (SLOTTED BASE) SHOULD BE SHOWN.
B SEE REVISIONS TO DRAWING 383306 FOR REVISIONS TO SOUTH SIDE OF BLDG.
REFERENCE DWGS:
283916-BLDG PLAN ROOF ACCESS-COMPR & GEN. BLDG
283916-BLDG DETAILS-ROOF ACCESS-COMPR & GEN. BLDG.

Rev'd for GM-121820
Rev'd for GM-136333

NO.	DATE	DESCRIPTION	APPROVED
1	02/14/70	ISSUED FOR PERMITS	WDR
2	02/14/70	ISSUED FOR PERMITS	WDR
3	02/14/70	ISSUED FOR PERMITS	WDR



NO.	DATE	DESCRIPTION	APPROVED
1	02/14/70	ISSUED FOR PERMITS	WDR
2	02/14/70	ISSUED FOR PERMITS	WDR
3	02/14/70	ISSUED FOR PERMITS	WDR

APPROVED	DATE	BY
WDR	02/14/70	WDR
WDR	02/14/70	WDR
WDR	02/14/70	WDR

REFERENCE DRAWINGS
ELEVATION DETAILS
TOPOCK COMPRESSOR BUILDING
TOILET ROOM VENT DETAILS

BILL OF MATERIAL	
SUPERSEDED BY	382901
SHEET NO.	382901
DRAWING NUMBER	382901

WDR 200322

Figure 4-28c
Engineering Drawing No. 382901, Rev. 6 (1976)
AOC 25
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



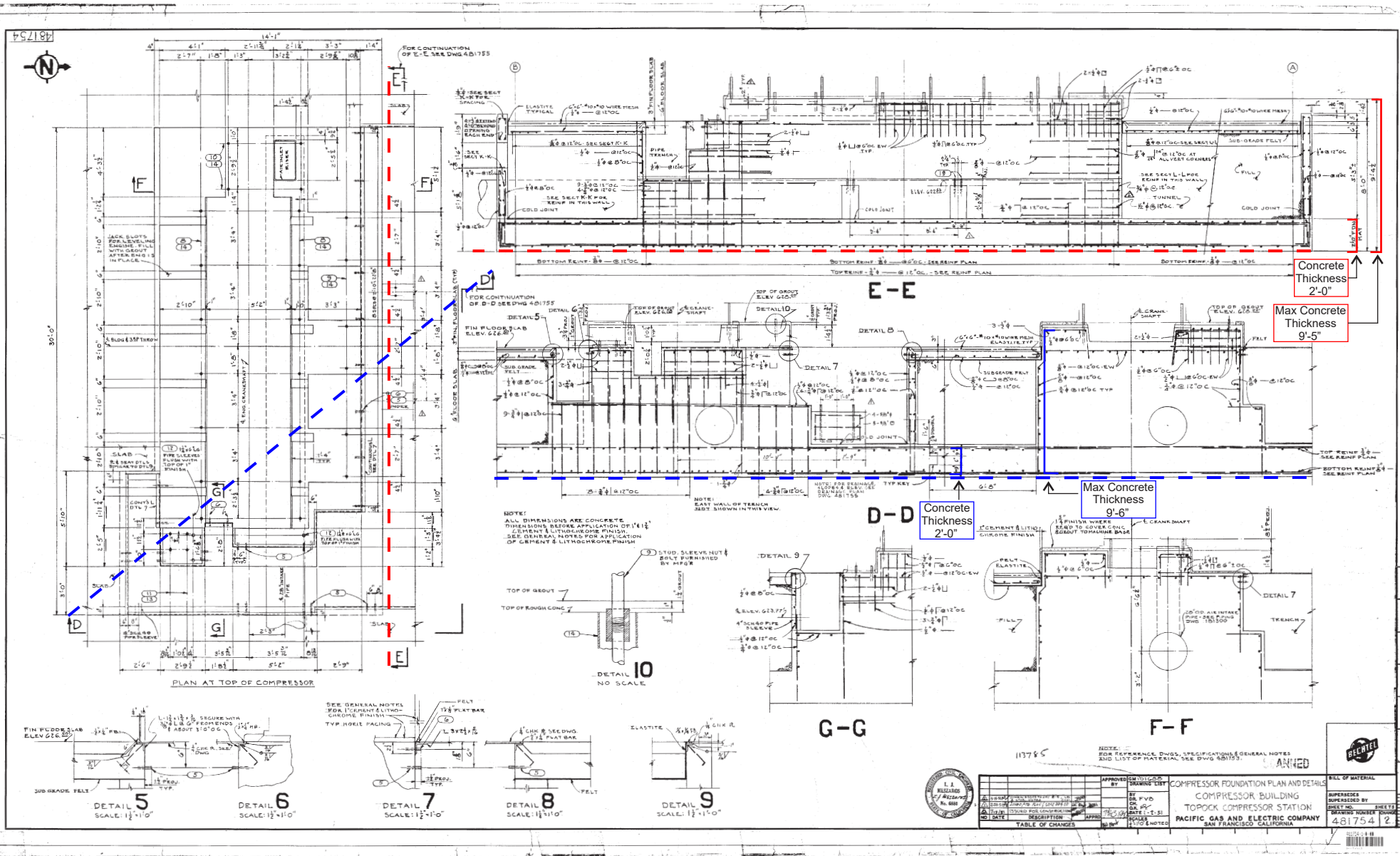


Figure 4-28d
 Engineering Drawing No. 481754, Rev. 2 (1951)
 AOC 25
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California

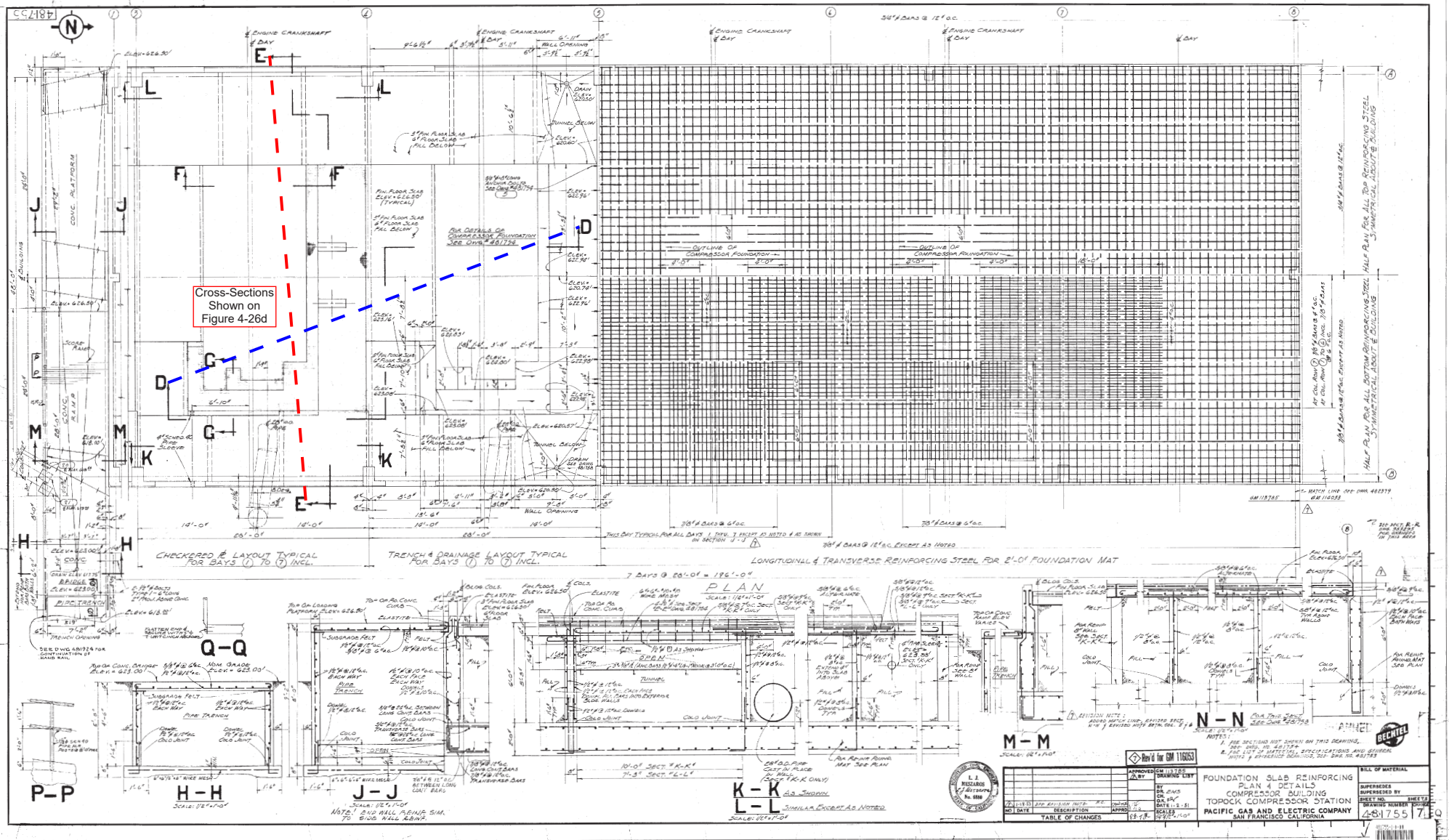
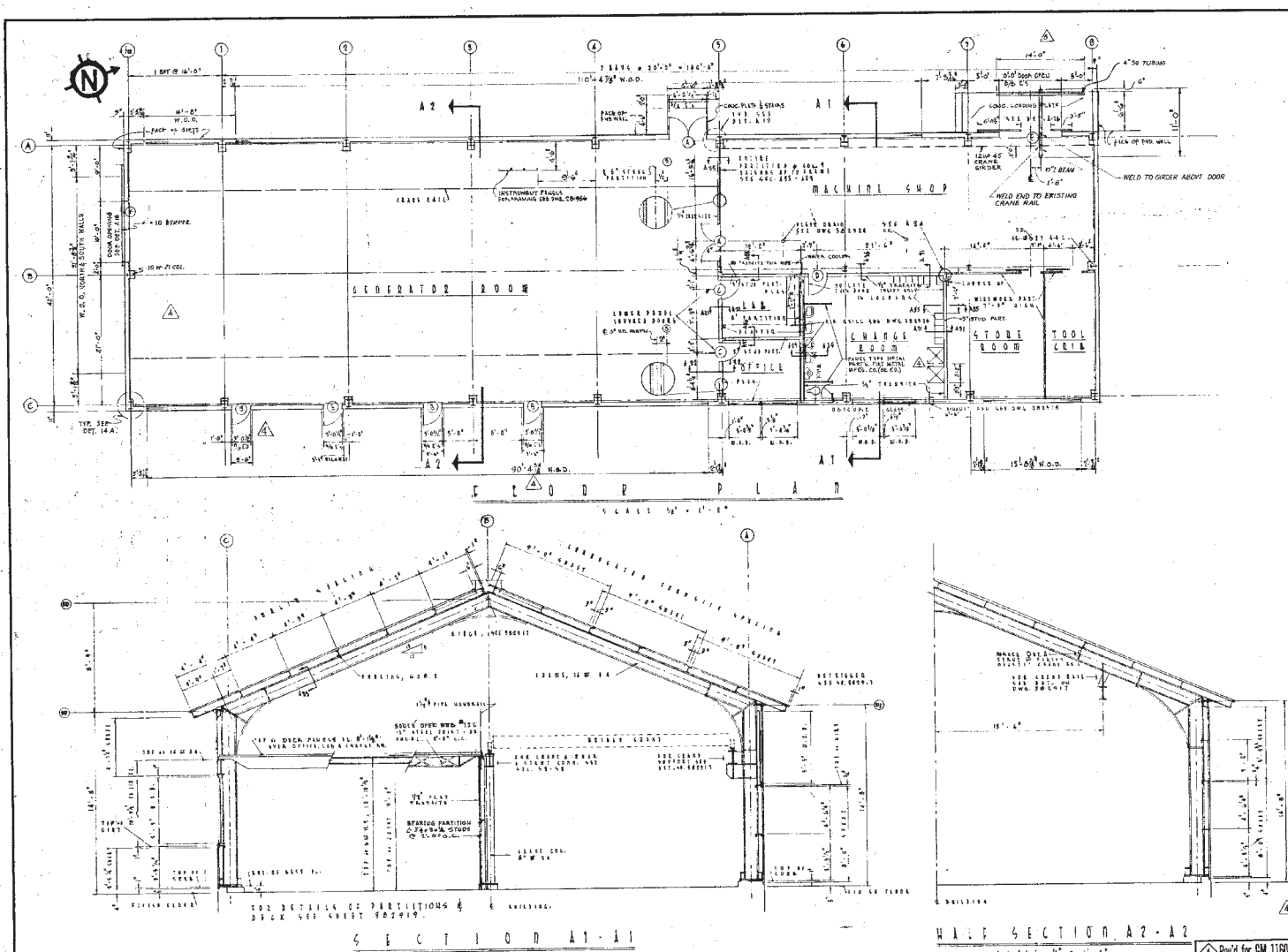


Figure 4-28e
 Engineering Drawing No. 481755, Rev. 7 (1953)
 AOC 25
 RFII/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



SPECIFICATIONS & NOTES

- NOTE: MECHANICAL ROOMS WITH BUILT-IN EQUIPMENT SHALL BE CONSIDERED AS PART OF THE BUILDING FOR ALL PURPOSES. SEE SPEC. 01-10-00 FOR DETAILS.
- EXTERIOR WALL COVERING AND INTERIOR WALLS SHALL BE AS SHOWN. ALL INTERIORS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL INTERIORS SHALL BE FINISHED TO MATCH EXISTING WORK.
 - ROOF COVERING SHALL BE AS SHOWN. ALL ROOFS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL ROOFS SHALL BE FINISHED TO MATCH EXISTING WORK.
 - ROOF VENTILATORS SHALL BE AS SHOWN. ALL ROOF VENTILATORS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL ROOF VENTILATORS SHALL BE FINISHED TO MATCH EXISTING WORK.
 - INTERIOR PARTITIONS - BEARING PARTITIONS, SUPPORTING OPEN WEB JOISTS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL INTERIORS SHALL BE FINISHED TO MATCH EXISTING WORK.
 - ROOF PARTITIONS SHALL BE AS SHOWN. ALL ROOF PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL ROOF PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK.
 - INTERIOR PARTITIONS SHALL BE AS SHOWN. ALL INTERIOR PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL INTERIOR PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK.
 - ROOF PARTITIONS SHALL BE AS SHOWN. ALL ROOF PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL ROOF PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK.
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 - INTERIOR PARTITIONS SHALL BE AS SHOWN. ALL INTERIOR PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL INTERIOR PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK.
 - ROOF PARTITIONS SHALL BE AS SHOWN. ALL ROOF PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL ROOF PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK.
 - INTERIOR PARTITIONS SHALL BE AS SHOWN. ALL INTERIOR PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL INTERIOR PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK.
 - ROOF PARTITIONS SHALL BE AS SHOWN. ALL ROOF PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK. ALL ROOF PARTITIONS SHALL BE FINISHED TO MATCH EXISTING WORK.

REVISION NOTES:
 A. ADD NEW 12" DIA. & 8" DIA. HOLES IN WALLS & PARTITIONS.
 B. ADD NEW 12" DIA. & 8" DIA. HOLES IN WALLS & PARTITIONS.
 C. CORRECTIONS FOR GM 450485 1009.
 D. INSTALLED CORNER OVER LOADING PLATFORM (CONS. 7 & 8).



NO.	DATE	DESCRIPTION	APPROVED
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3	11/15/67	AS SHOWN	
4	11/15/67	AS SHOWN	
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Approved for GM 116053
 11/15/67
 L.I. ROZASAROS
 License No. 6180

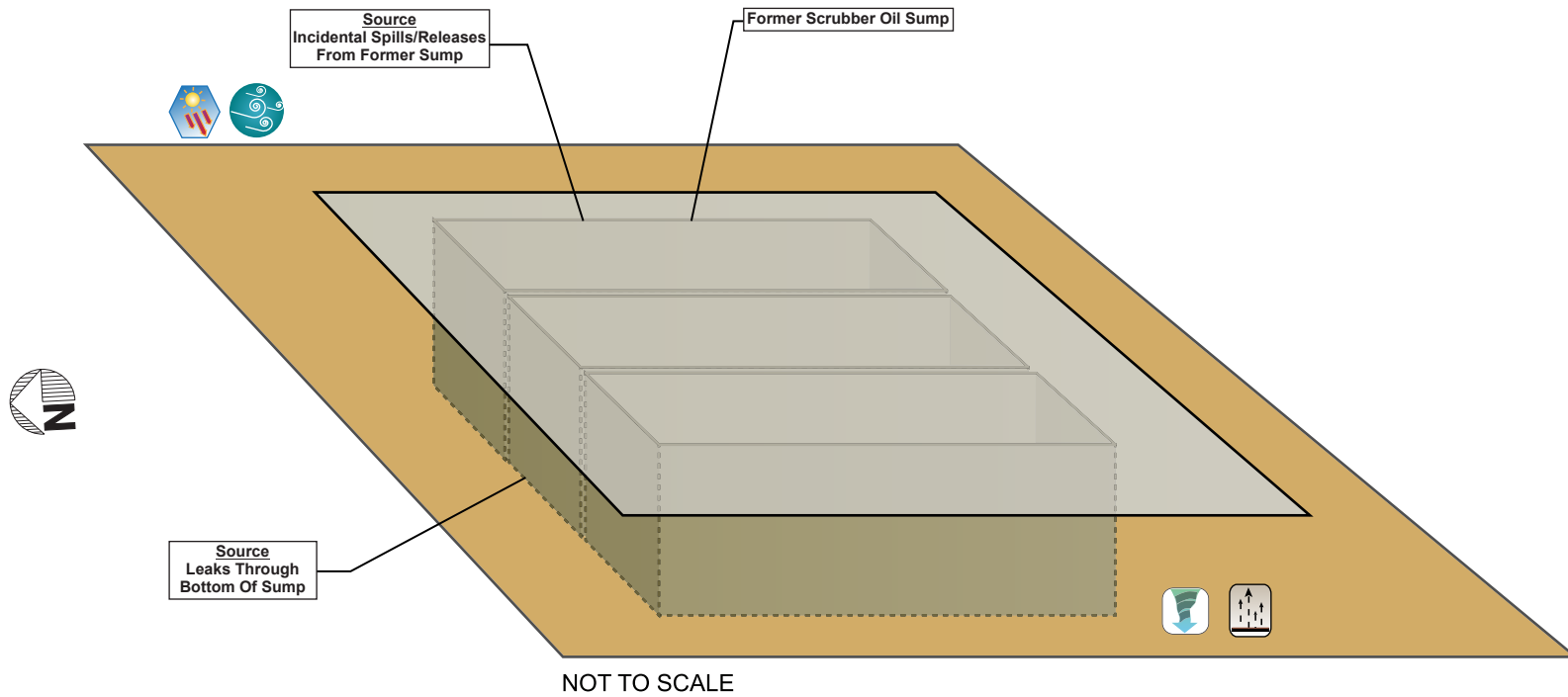
ITEM	QUANTITY	UNIT	PRICE	TOTAL
1. REINFORCED CONCRETE	100	CU YD	10.00	1000.00
2. BRICK	1000	SQ YD	1.00	1000.00
3. ROOFING	100	SQ YD	1.00	100.00
4. INTERIOR FINISH	100	SQ YD	1.00	100.00
5. EXTERIOR FINISH	100	SQ YD	1.00	100.00
6. MECHANICAL	100	SQ YD	1.00	100.00
7. ELECTRICAL	100	SQ YD	1.00	100.00
8. PAINT	100	SQ YD	1.00	100.00
9. GLASS	100	SQ YD	1.00	100.00
10. METAL	100	SQ YD	1.00	100.00
11. WOOD	100	SQ YD	1.00	100.00
12. OTHER	100	SQ YD	1.00	100.00

BILL OF MATERIAL
 SUPERSEDES SHEET NO. 382915
 DRAWING NUMBER 382915
 SHEETS 15 OF 15

FLOOR PLAN, SECTIONS & SCHEDULES
ADULTERY BUILDING
TOPOCK COMPRESSOR STATION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

Figure 4-28f
 Engineering Drawing No. 382915, Rev. 5 (1970)
 AOC 25
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California





LEGEND

Potential Release Mechanisms



Windblown Dispersion



Volatilization



Degradation by Heat/Light

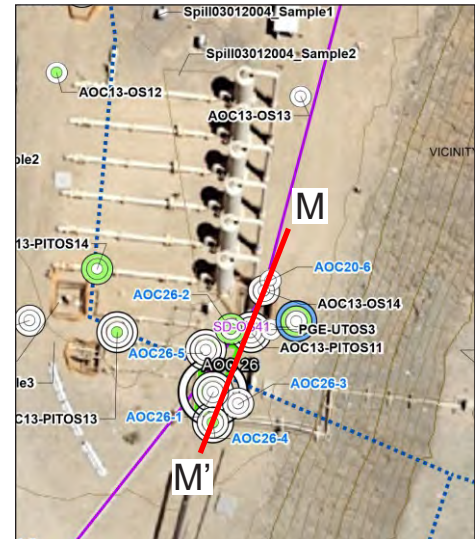
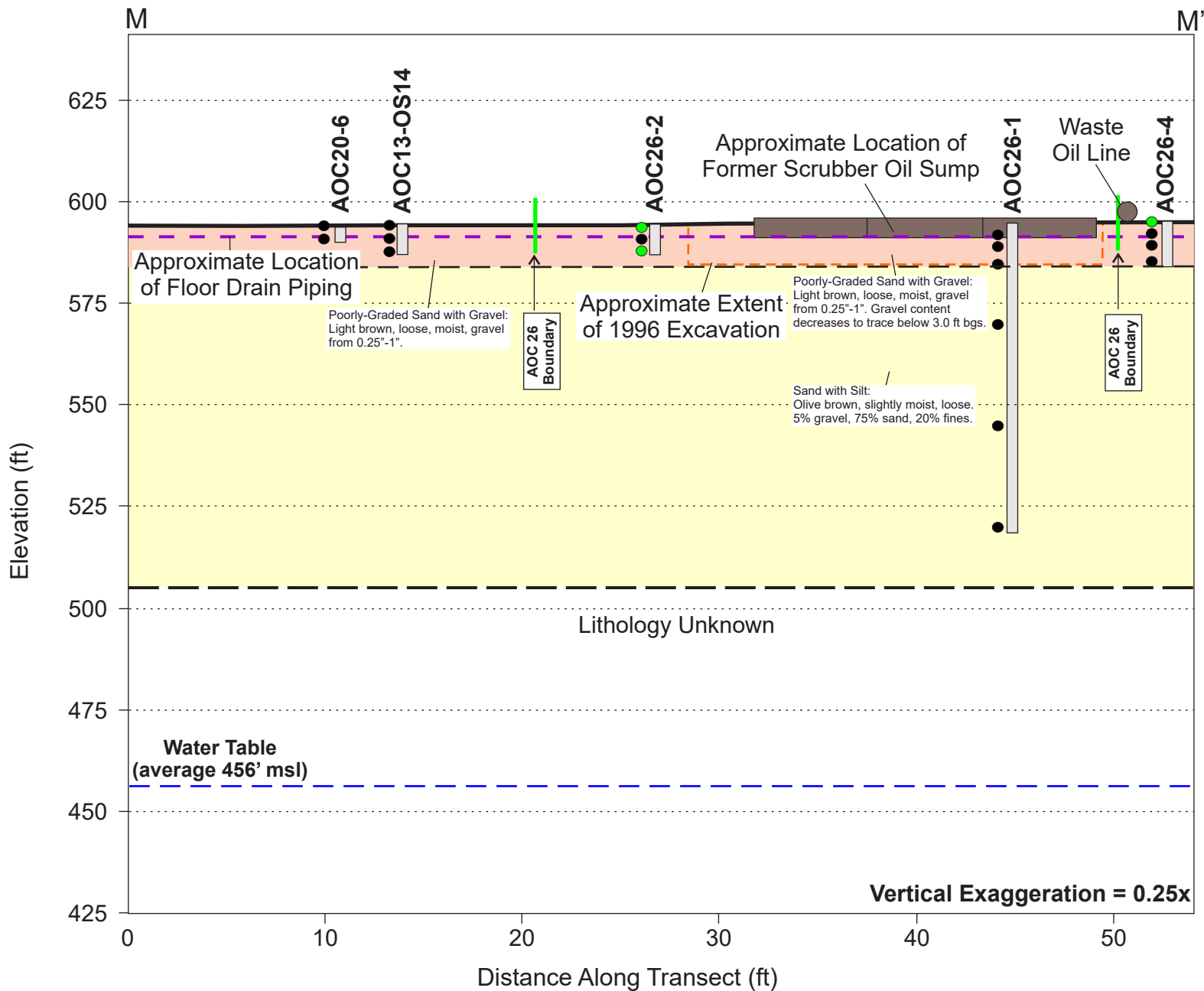


Infiltration



Soil/Fill (surface/subsurface geology not depicted)

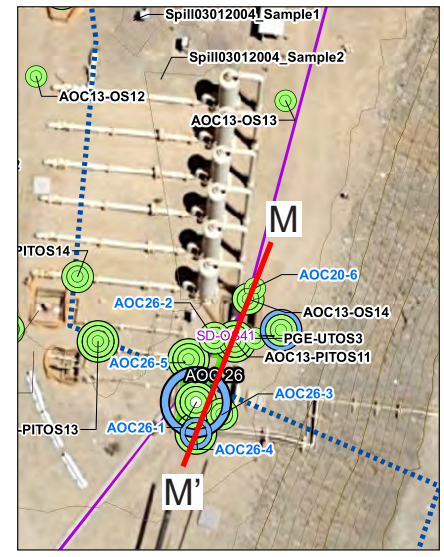
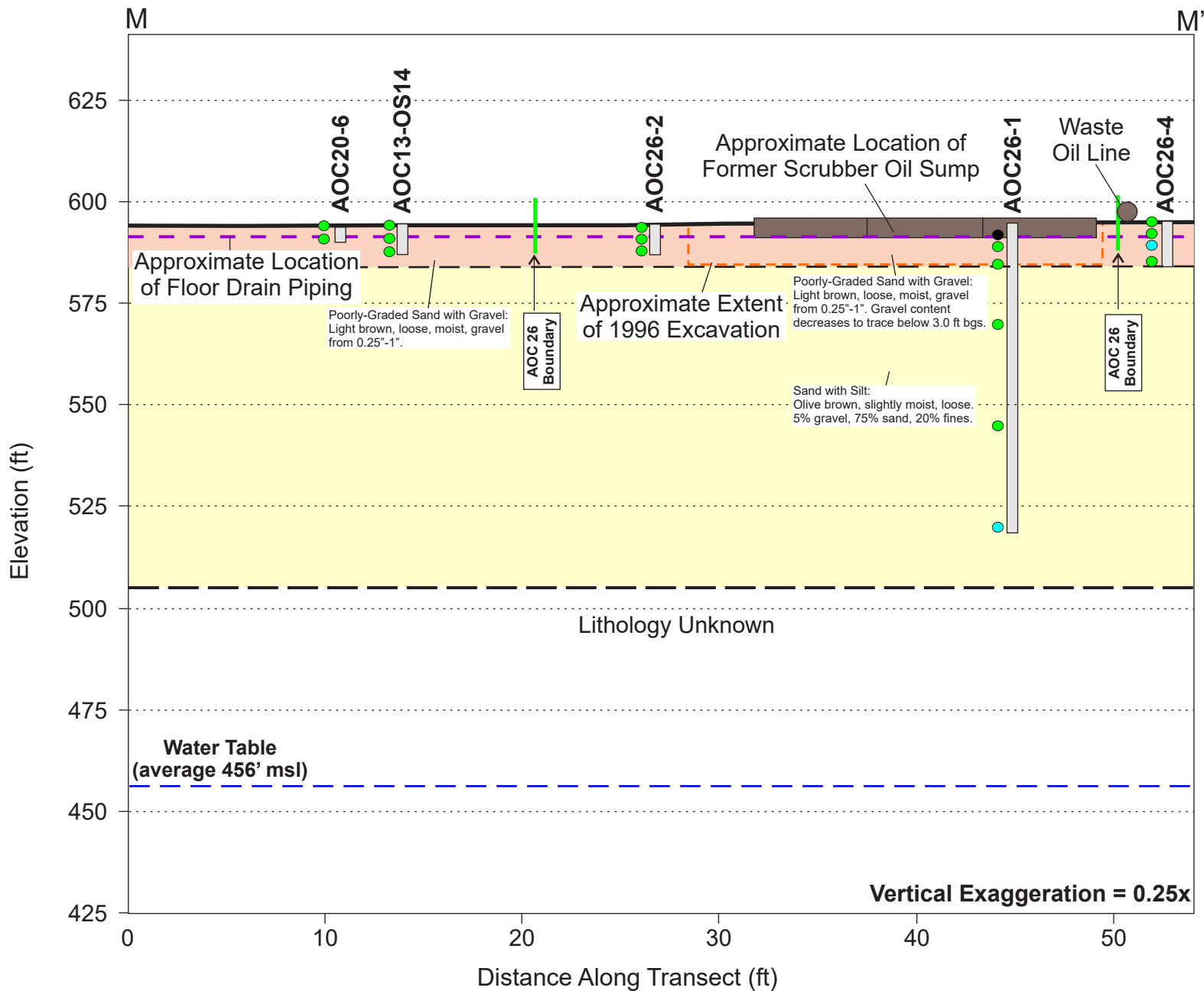
Figure 4-29a
Conceptual Site Model
AOC 26
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



- LEGEND**
- Topography
 - Inferred Lithologic Contact
 - Soil Boring
 - CrVI mg/kg**
 - Analytical Soil Sample
 - Soil Concentration Non-Detect
 - Soil Concentration < Background (0.83 mg/kg)

Notes:
 -Detailed lithology is shown where information from boring logs is available.

Figure 4-29b
Cross Section Showing Hexavalent Chromium Results AOC 26
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



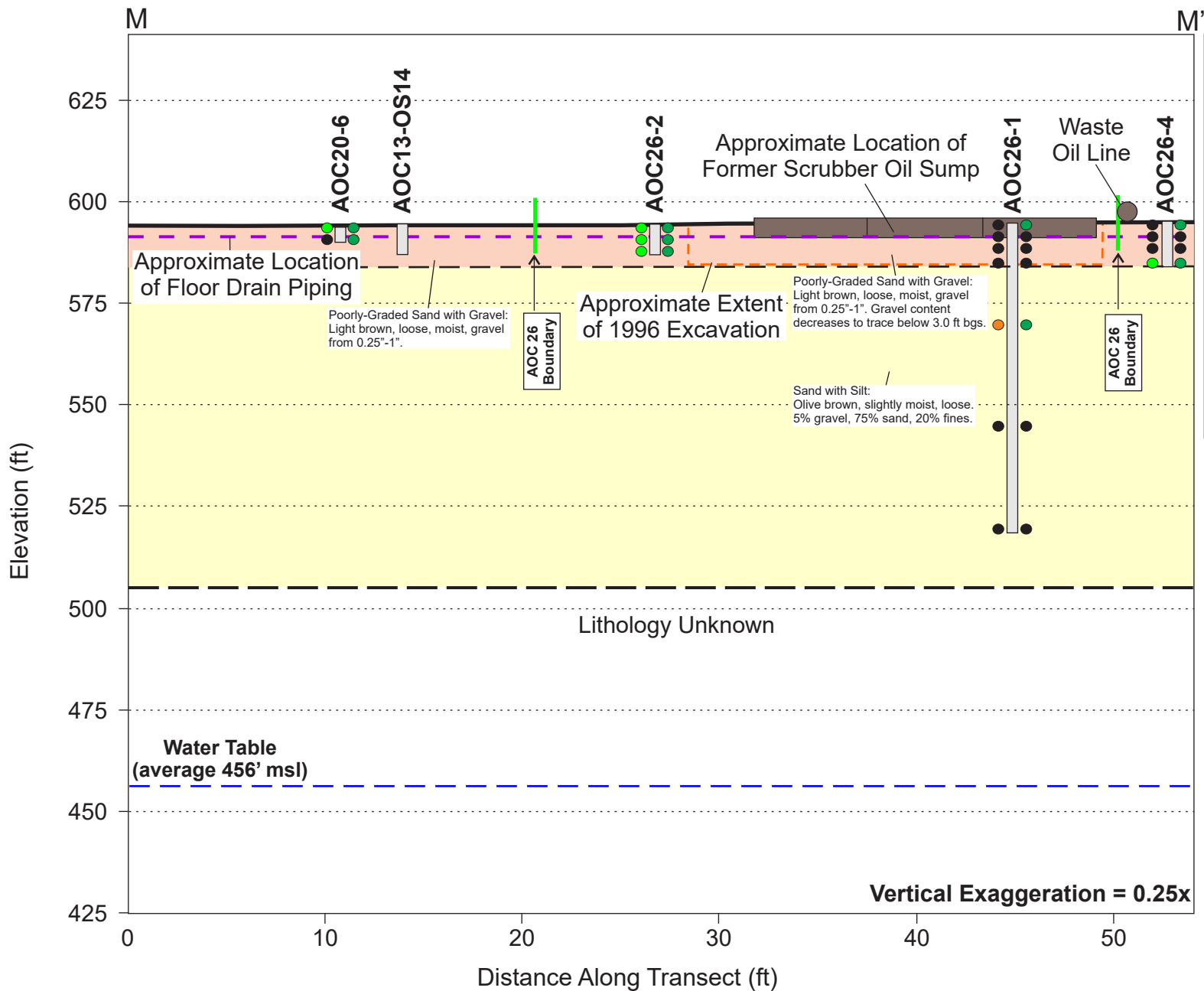
LEGEND

- Topography
- Inferred Lithologic Contact
- Soil Boring

- Total Chromium mg/kg**
- Analytical Soil Sample
 - Soil Concentration Non-Detect
 - Soil Concentration < Background (0.83 mg/kg)
 - Soil Concentration > Background (39.8 mg/kg)

Notes:
 -Detailed lithology is shown where information from boring logs is available.

Figure 4-29c
Cross Section Showing Total Chromium Results AOC 26
 RFI/RI Report Volume 3 - Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



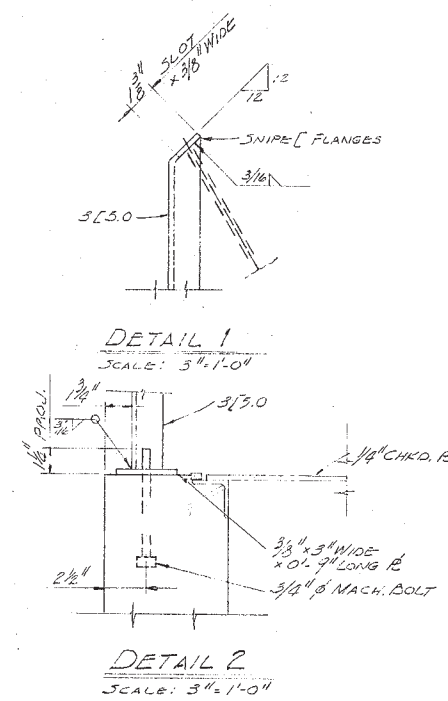
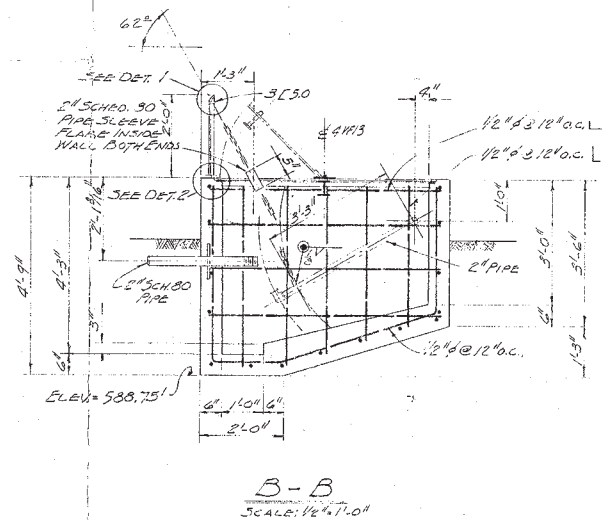
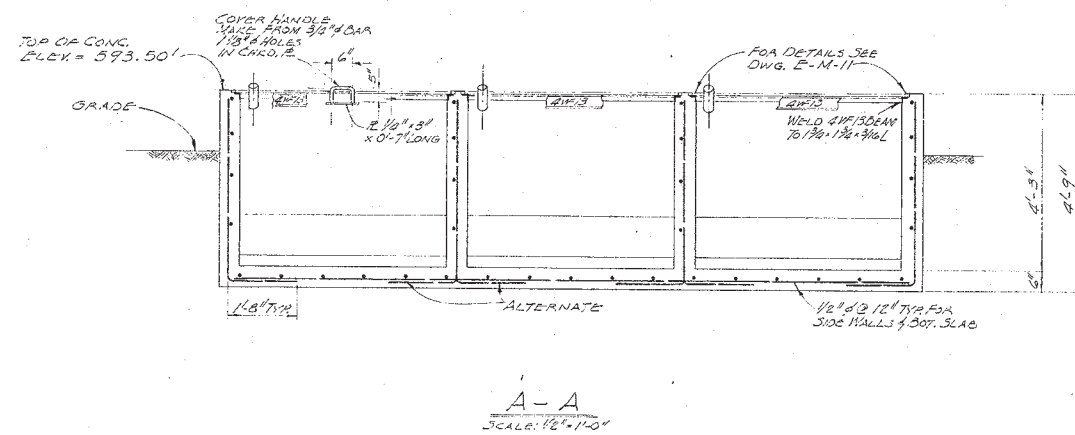
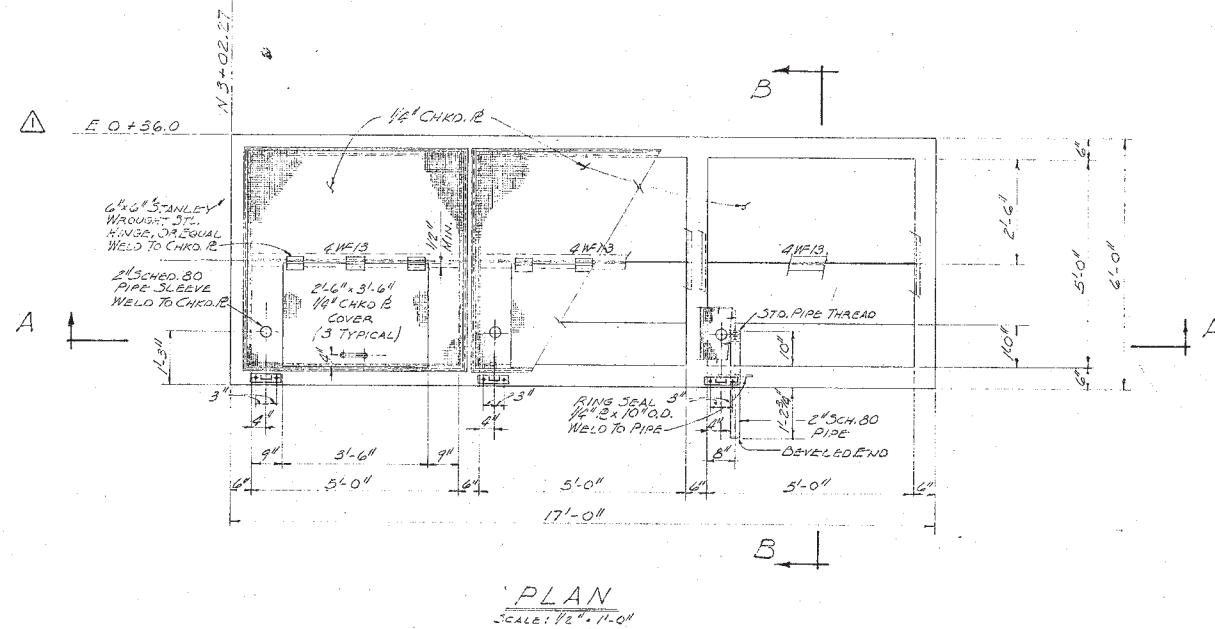
LEGEND

<p>— Topography</p> <p>- - - Inferred Lithologic Contact</p> <p>Soil Boring</p> <p>○ TPH-D* □ TPH-MO*</p>	<p>TPH as Diesel mg/kg</p> <p>○ Analytical Soil Sample</p> <p>● Soil Concentration Non-Detect</p> <p>● Soil Concentration < CSL (1,100 mg/kg)</p> <p>● Soil Concentration > CSL (1,100 mg/kg)</p>	<p>TPH as Motor Oil mg/kg</p> <p>○ Analytical Soil Sample</p> <p>● Soil Concentration Non-Detect</p> <p>● Soil Concentration < CSL (140,000 mg/kg)</p>
--	--	--

Notes:

- *TPH-D - Total Petroleum Hydrocarbons (TPH) as Diesel, TPH - MO - TPH as Motor Oil
- Inset map shows human dioxins and furans TEQ results; no TPH results figures were developed because there were fewer than 3 exceedances of the CSL.
- Detailed lithology is shown where information from boring logs is available.

Figure 4-29d
Cross Section Showing TPH - Diesel and TPH - Motor Oil Results
AOC 26
 RFI/RI Report Volume 3 -
 Results of Soil and Sediment Investigation
 PG&E Topock Compressor Station, Needles, California



LIST OF MATERIAL

ITEM	QUAN.	DESCRIPTION	ORDER NO.
1	5	CURBS, CONCRETE	150-045
		CEMENT	150-046
		AGGREGATE	
2	1 LOT	REINFORCING STEEL	150-040
3	16	LIN. FT. 1/2" x 5' 2 1/2" WIRE CHKD. R.	150-049
4	63	LIN. FT. FADICATED 1 1/2" x 1 3/4" x 3/16" COMPLETE WITH ANCHORS 4 3/8" x 2 BAR PER DWG. E-M-11.	150-049
5	9	2" x 2" STANLEY WROUGHT STEEL HINGE, OR EQUAL	150-048
6	24	LIN. FT. 3/16" COIL CHAIN	150-048
7	6	3/4" x 0'-8" (4) LONG MACH. BOLT WITH 1-C.P.S.F. HEX. NUT	150-048
8	4	LIN. FT. 2" SCHED. 40 PIPE	FIELD
9	15	LIN. FT. 2" x 3" COVER	150-049
10	3	LIN. FT. 3/8" x 3" WIDE STL. R.	150-049
11	7	LIN. FT. 3" x 5" S.C.	150-049
12	3	1/4" STL. SEALING 2 1/2" ID. x 10" O.D.	150-049

GENERAL NOTES

1. FOR DESIGN & CONSTRUCTION NOTES SEE DWG. # 081850.

REFERENCE DRAWINGS

PIPING PLAN AT SCRUBBER (TYPICAL) OIL SUMP	481765
TYPICAL FLOOR PLATE DETAILS	E-M-11
PLOT PLAN	481751
DESIGN & CONSTRUCTION NOTES FOR CONG. DWGS	081850

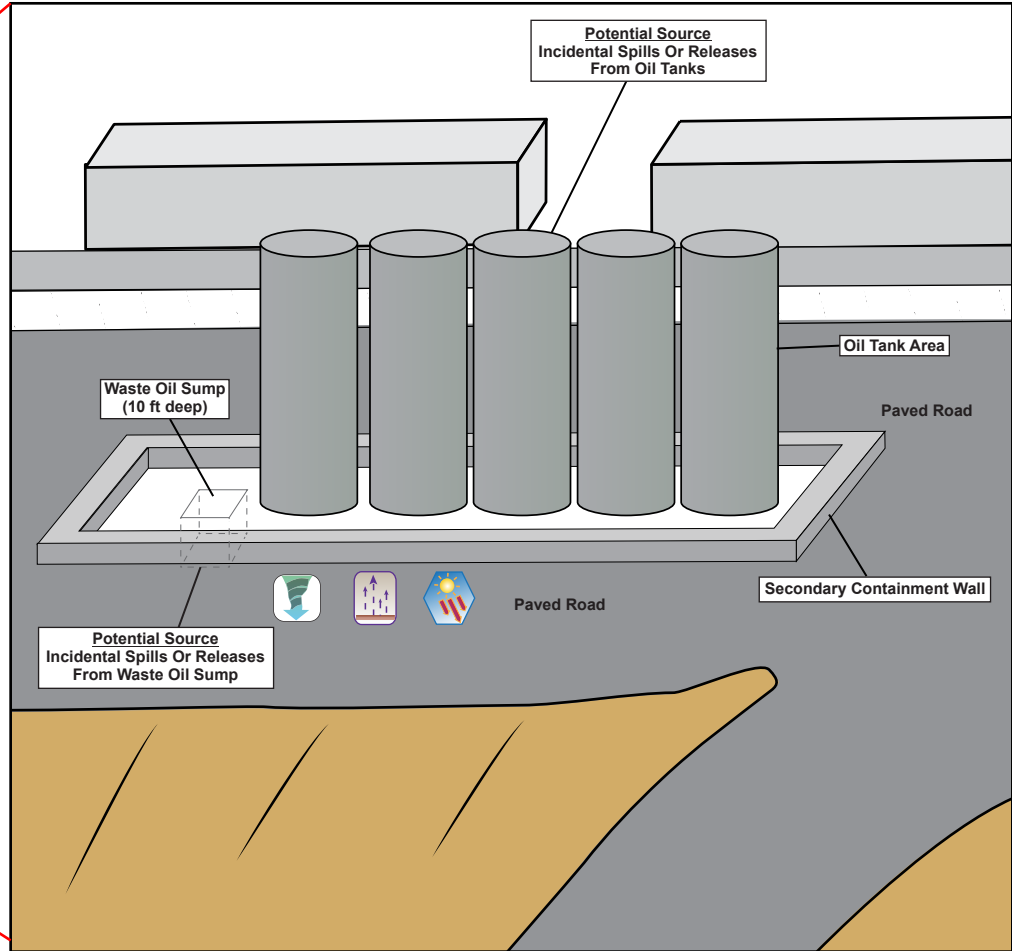
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2	1/14/51	ISSUED FOR CONSTRUCTION	[Signature]

APPROVED BY	GM 117788
BY	DR. EMS
CH.	O.K. EPS
DATE	1-14-51
SCALE	AS SHOWN

SCRUBBER OIL SUMP
TOPOCK COMPRESSOR STATION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

BILL OF MATERIAL	382914
SUPERSEDES	
SUPERSEDED BY	
SHEET NO.	11
DRAWING NUMBER	382914
CHANGE	

Figure 4-29e
Engineering Drawing No. 382914, Rev. 1 (1951)
of Former Scrubber Oil Sump
AOC 26
RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



NOT TO SCALE

LEGEND

Potential Release Mechanisms



Infiltration



Volatilization



Degradation by Heat/Light



Soil/Fill (surface/subsurface geology not depicted)

Figure 4-30a
Conceptual Site Model
AOC 32

RFI/RI Report Volume 3 -
Results of Soil and Sediment Investigation
PG&E Topock Compressor Station, Needles, California



