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Legend:

- Soil Sampling Location
- Sediment Sampling Location
- NTCRA Confirmation Samples
- Area of Concern
- OCS Exposure Area
- Exposure Area
- AOC 14 Label for Exposure Area
- AOC 14 Label for Area of Concern
- Potential Burning Related Location
- Fencing
- Property Boundaries
- Contour Line (10 feet interval)
- Inside the Topock Compressor Station boundary, as defined by current fenceline

PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

POST-SOIL NTCRA HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

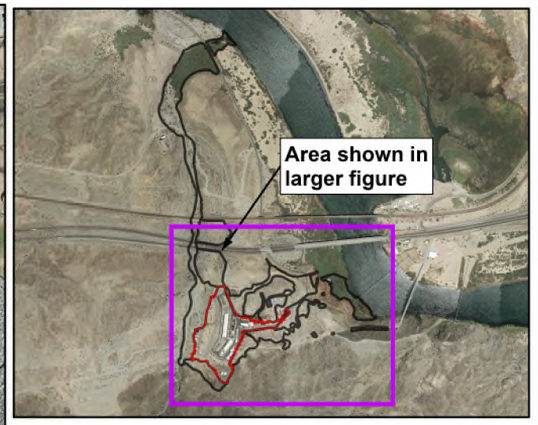
CURRENT SOIL SAMPLING LOCATIONS IN NON-TIME CRITICAL REMOVAL ACTION AREAS OUTSIDE THE COMPRESSOR STATION - NORTH

ARCADIS

FIGURE
3-1a

PATH: T:_ENV\PGE_Topock\ArcPro\SHHERAA\PostNTCRA_HHERA_Figures_MainReport.aprx 12/10/2025 9:18 AM





Legend:

- Soil Sampling Location
- Sediment Sampling Location
- NTCRA Confirmation Samples
- Area of Concern
- Solid Waste Management Unit
- Potential Burning Related Location
- OCS Exposure Area
- SWMU1 Exposure Area
- Exposure Area
- Property Boundaries
- Contour Line (10 feet interval)
- Fencing
- Inside the Topock Compressor Station boundary, as defined by current fenceline
- AOC 28 — Label for Exposure Area
- AOC 28a — Label for Area of Concern

0 240 480

SCALE IN FEET

PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

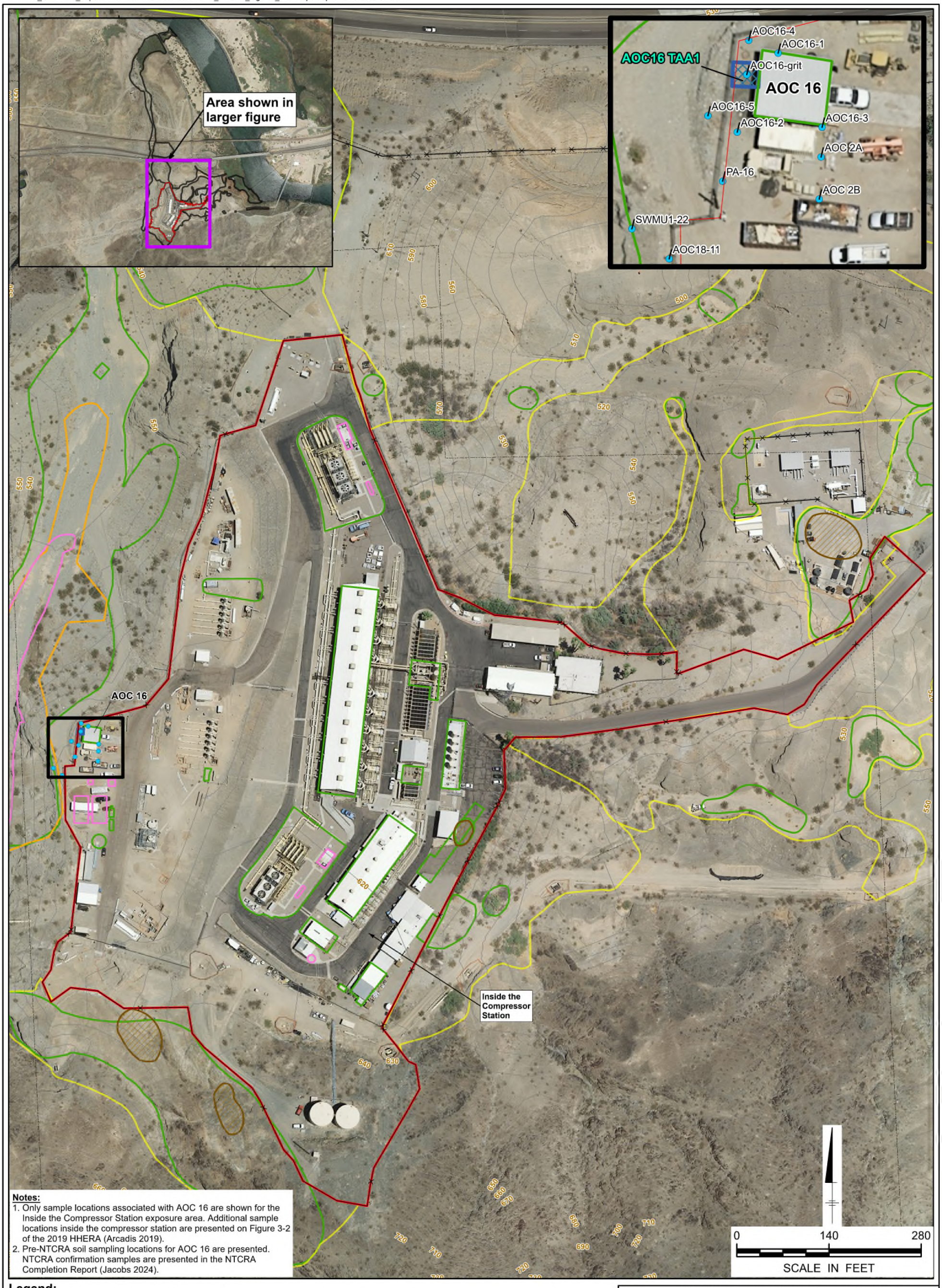
POST-SOIL NTCRA HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

CURRENT SOIL SAMPLING LOCATIONS IN NON-TIME CRITICAL REMOVAL ACTION AREAS OUTSIDE THE COMPRESSOR STATION - SOUTH

ARCADIS

FIGURE
3-1b

PATH: T:_ENV\PGE_Topock\ArcPro\SHHERAA\PostNTCRA_HHERA_Figures_MainReport.aprx 12/10/2025 9:15 AM



Notes:
1. Only sample locations associated with AOC 16 are shown for the Inside the Compressor Station exposure area. Additional sample locations inside the compressor station are presented on Figure 3-2 of the 2019 HHERA (Arcadis 2019).
2. Pre-NTCRA soil sampling locations for AOC 16 are presented. NTCRA confirmation samples are presented in the NTCRA Completion Report (Jacobs 2024).

Legend:

- Soil Sampling Location
- Area of Concern
- Exposure Area
- Solid Waste Management Unit
- SWMU1 Exposure Area
- Potential Burning Related Location
- AOC16 TAA1 — Target Action Area (TAA)
- Fencing
- Property Boundaries
- Contour Line (10 feet interval)
- Inside the Topock Compressor Station boundary, as defined by current fenceline
- Target Action Area
- AOC 4 — Label for Exposure Area
- AOC 4 — Label for Area of Concern

PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

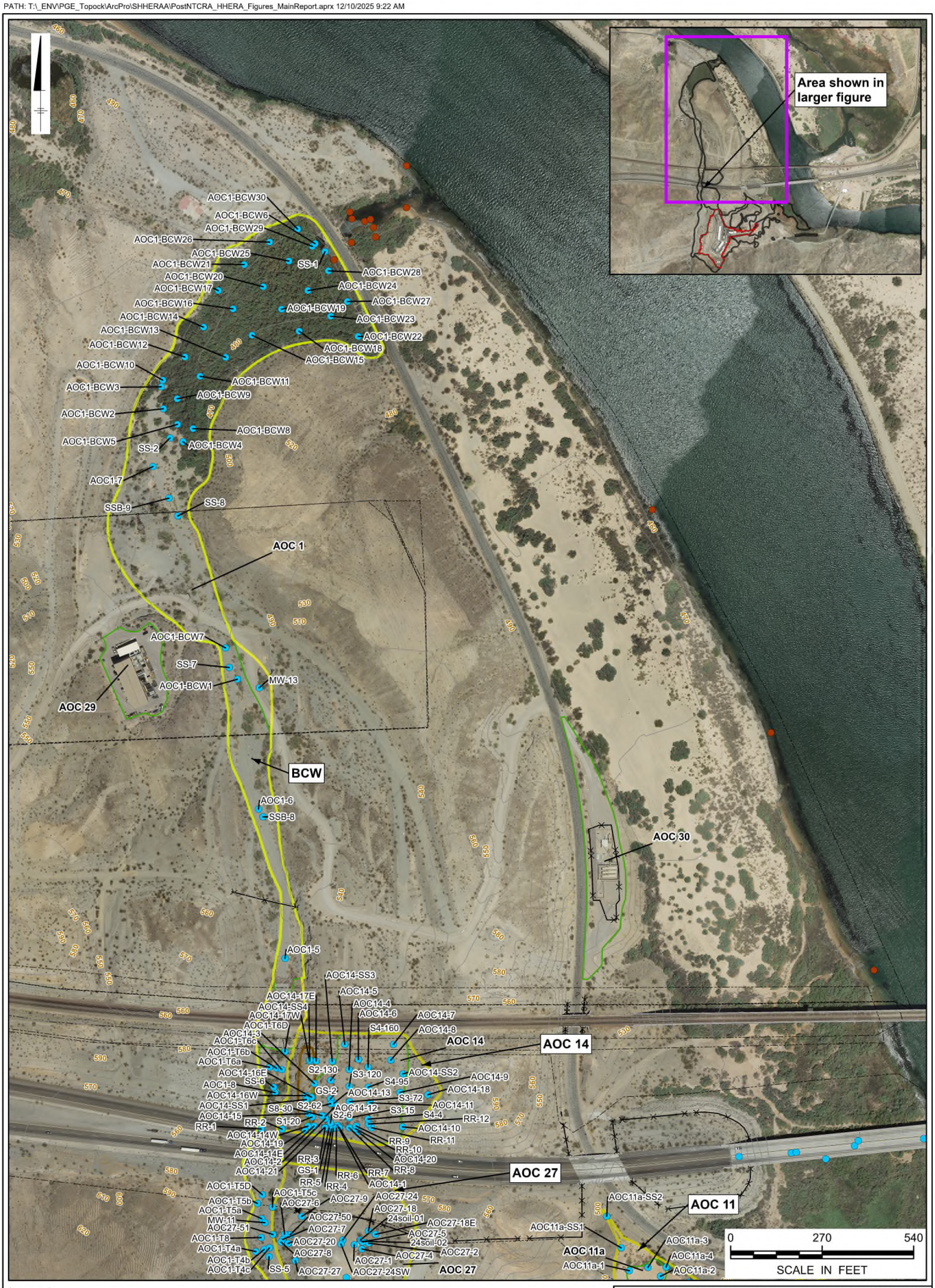
POST-SOIL NTCRA HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

CURRENT SOIL SAMPLING LOCATIONS IN NON-TIME CRITICAL REMOVAL ACTION AREAS INSIDE THE COMPRESSOR STATION EXPOSURE AREA

ARCADIS

FIGURE 3-2

PATH: T:_ENV\PGE_Topock\ArcPro\SHHERAA\PostNTCRA_HHERA_Figures_MainReport.aprx 12/10/2025 9:22 AM



Legend:

- Soil Sampling Location
- Sediment Sampling Location
- Area of Concern
- OCS Exposure Area
- Exposure Area
- Potential Burning Related Location
- AOC 14 — Label for Exposure Area
- AOC 14 — Label for Area of Concern
- Fencing
- Property Boundaries
- Contour Line (10 feet interval)
- Inside the Topock Compressor Station boundary, as defined by current fenceline

Notes:

1. All sample locations with a labeled location ID are included in Outside the Compressor Station (OCS) exposure areas.

PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

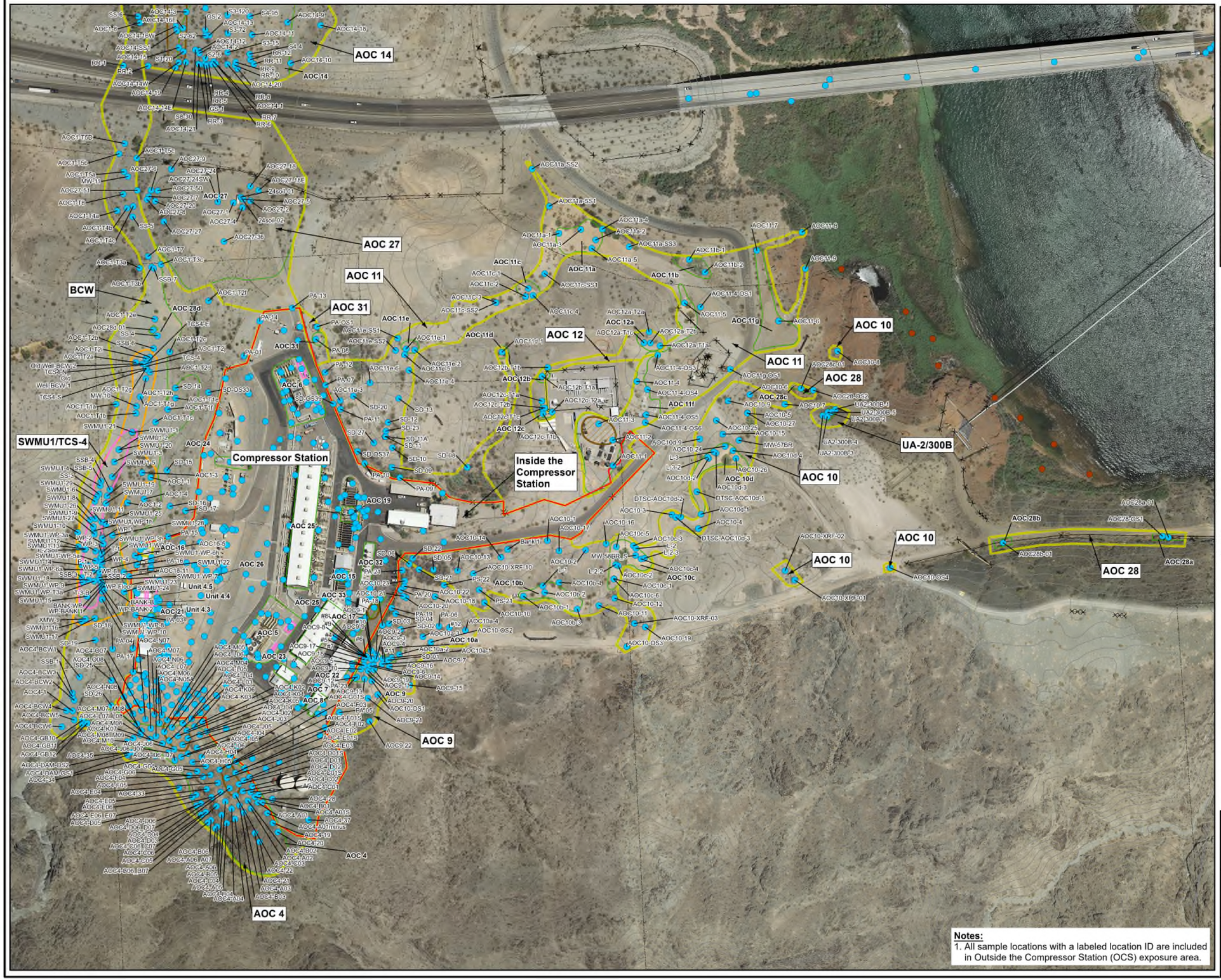
POST-SOIL NTCRA HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

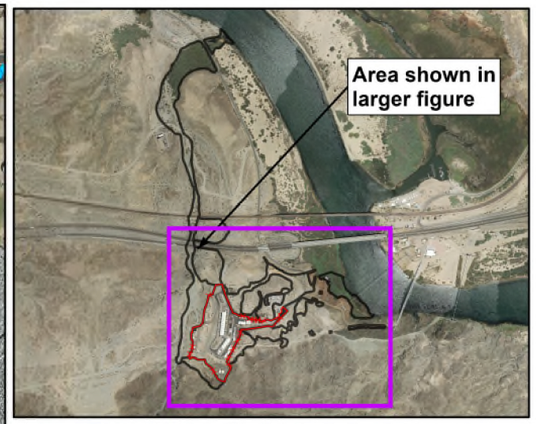
SOIL SAMPLING LOCATIONS OUTSIDE THE COMPRESSOR STATION (PRE-NTCRA) - NORTH

ARCADIS

FIGURE 3-3a

PATH: T:_ENV\PGE_Topock\ArcPro\SHHERAA\PostNTCRA_HHERA_Figures_MainReport.aprx 12/10/2025 9:12 AM





Legend:

- Soil Sampling Location
- Sediment Sampling Location
- Area of Concern
- Solid Waste Management Unit
- Potential Burning Related Location
- OCS Exposure Area
- SWMU1 Exposure Area
- Exposure Area
- Property Boundaries
- Contour Line (10 feet interval)
- Fencing
- Inside the Topock Compressor Station boundary, as defined by current fenceline
- AOC 28 — Label for Exposure Area
- AOC 28a — Label for Area of Concern

0 240 480

SCALE IN FEET

Notes:

1. All sample locations with a labeled location ID are included in Outside the Compressor Station (OCS) exposure area.

PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

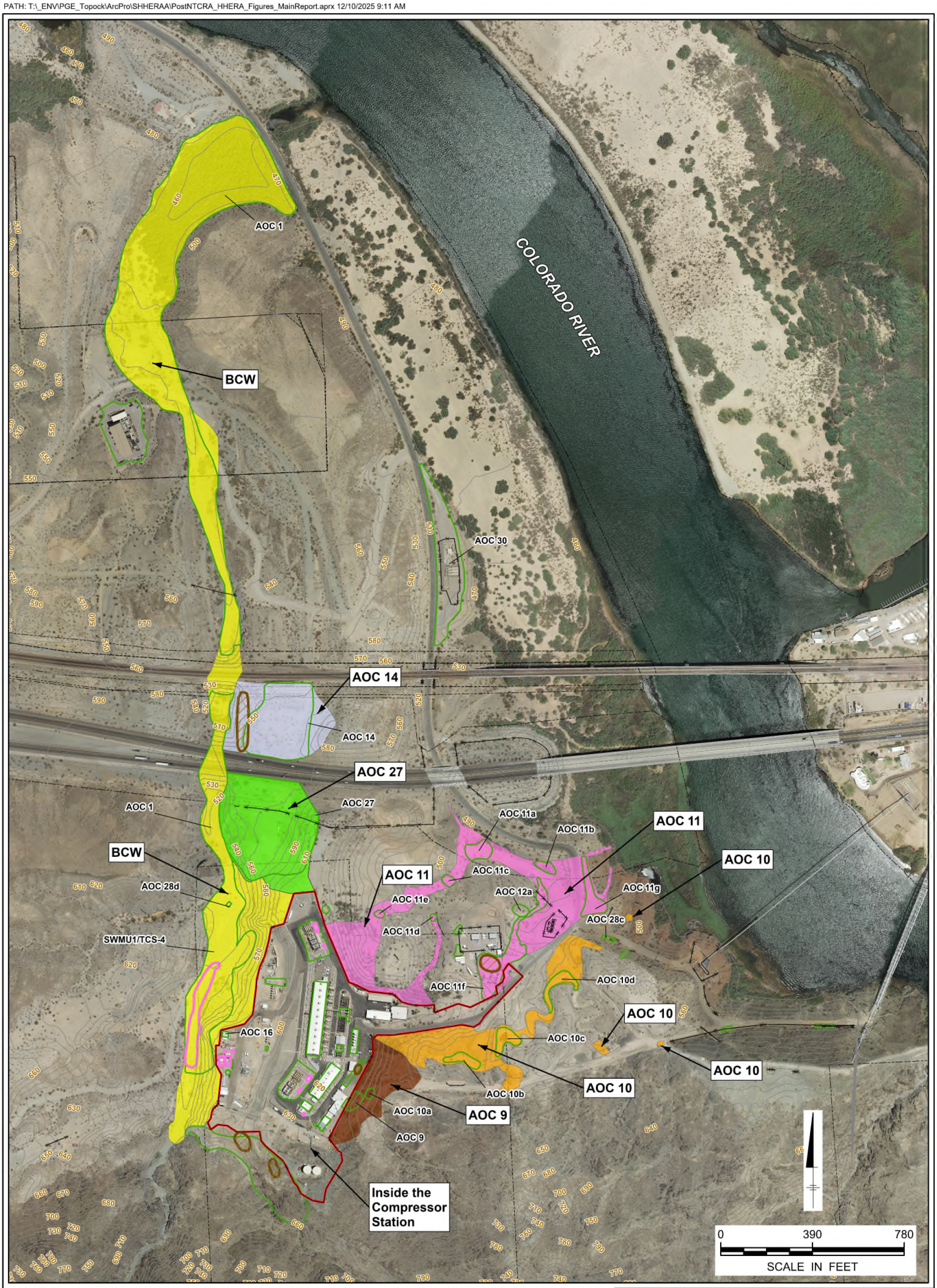
POST-SOIL NTCRA HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

SOIL SAMPLING LOCATIONS OUTSIDE THE COMPRESSOR STATION (PRE-NTCRA) - SOUTH

ARCADIS

FIGURE 3-3b

PATH: T:_ENV\PGE_Topock\ArcPro\SHHERAA\PostNTCRA_HHERA_Figures_MainReport.aprx 12/10/2025 9:11 AM



Legend:

- Area of Concern
- Solid Waste Management Unit
- Potential Burning Related Location
- Property Boundaries
- Contour Line (10 feet interval)
- Fence Line
- BCW — Label for Exposure Area
- AOC 1 — Label for Area of Concern

Exposure Areas

- Inside the Topock Compressor Station boundary, as defined by current fenceline
- BCW
- AOC 10
- AOC 11
- AOC 14
- AOC 27
- AOC 9

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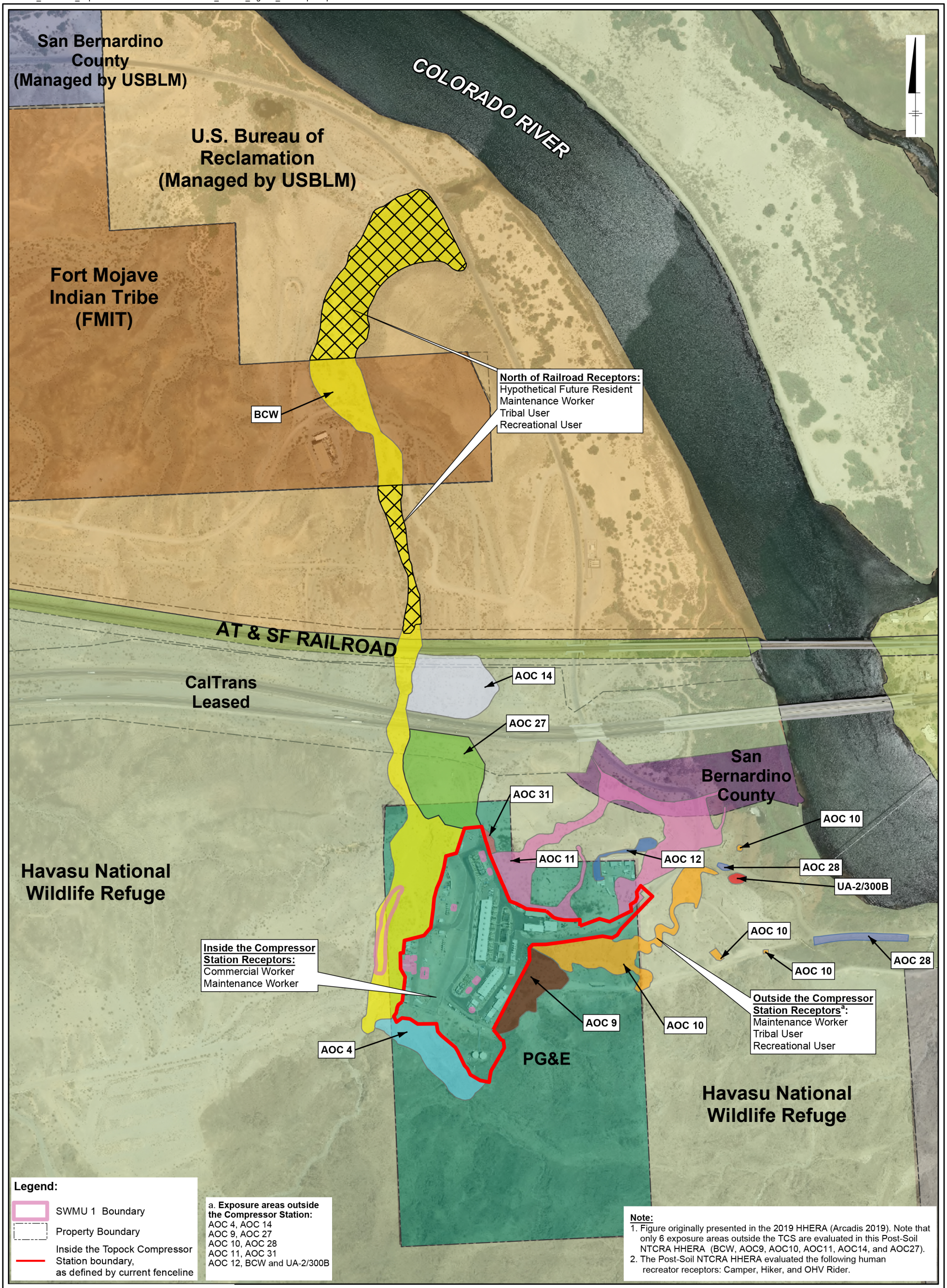
POST-SOIL NTCRA HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

EXPOSURE AREAS BASED ON INDIVIDUAL AOCS/INVESTIGATION AREAS

ARCADIS

FIGURE 3-4

PATH: T:_ENV\PGE_Topock\ArcPro\SHHERAA\PostNTCRA_HHERA_Figures_MainReport.aprx 12/16/2025 1:25 PM



Legend:

- SWMU 1 Boundary
- Property Boundary
- Inside the Topock Compressor Station boundary, as defined by current fenceline

a. **Exposure areas outside the Compressor Station:**
AOC 4, AOC 14
AOC 9, AOC 27
AOC 10, AOC 28
AOC 11, AOC 31
AOC 12, BCW and UA-2/300B

Note:
1. Figure originally presented in the 2019 HHERA (Arcadis 2019). Note that only 6 exposure areas outside the TCS are evaluated in this Post-Soil NTCRA HHERA (BCW, AOC9, AOC10, AOC11, AOC14, and AOC27).
2. The Post-Soil NTCRA HHERA evaluated the following human recreator receptors: Camper, Hiker, and OHV Rider.

Exposure Areas
- North of Railroad
- BCW
- AOC 10
- AOC 11
- AOC 12
- AOC 14
- AOC 27
- AOC 28
- AOC 31
- AOC 4
- AOC 9
- UA-2/300B
- AOC 1 Label for Exposure Area

Property Owners
- AT & SF Railroad
- Bureau of Reclamation (Managed by USBLM)
- Caltrans Leased
- Fort Mojave Indian Tribe
- Havasu National Wildlife Refuge (HNWR)
- PG&E
- San Bernardino County
- San Bernardino County (Managed by USBLM)

0 480 960
SCALE IN FEET

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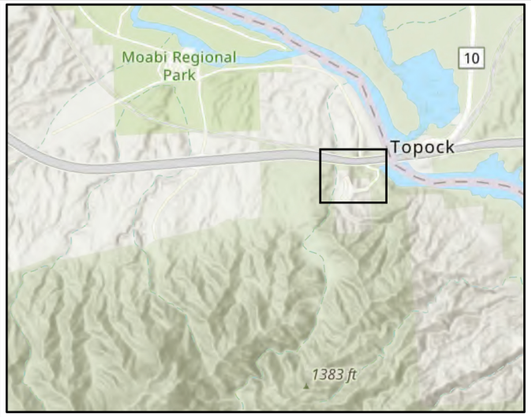
NEEDLES, CALIFORNIA
POST-SOIL NTCRA HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

LAND USE FOR HUMAN HEALTH EXPOSURE AREAS

ARCADIS

FIGURE
5-1





Initial Target Action Area Footprint

Final NTCRA Excavation Extent

Topock Comressor Station

835 ft² Surface Area of Excavation Extent

Note	Backfill Description
1	100% backfilled with Campbell's AB
2	Backfilled 100% with 3/4-inch plus screened rock to within 2 to 3 ft of surface. Campbells AB placed on top 2-3 ft.
3	~20% backfilled along edges with reused onsite soil
4	100% backfilled with riprap. Slope then covered in shotcrete
5	100% backfilled. Campbell's AB on upper and lower slope then covered with riprap. Slope then covered in shotcrete
6	Backfilled 100% with reused onsite soil
7	No backfill. Graded and covered with gravel
8	Not backfilled
9	Steep slope not backfilled. Excavation at bottom of slope backfilled with Campbells AB and rip rap. Rip rip then covered with Campbell's AB.

Notes:

1. ft^2 = square foot
2. Source: Jacobs (2026) Figure 5-2 Soil NTCRA Excavation and Backfill Map.

0 200 400

SCALE IN FEET

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NEEDLES, CALIFORNIA

POST-SOIL NTCRA HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

SOIL NTCRA EXCAVATION AND BACKFILL MAP

ARCADIS

FIGURE
5-2