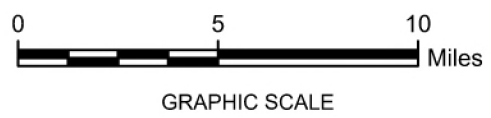


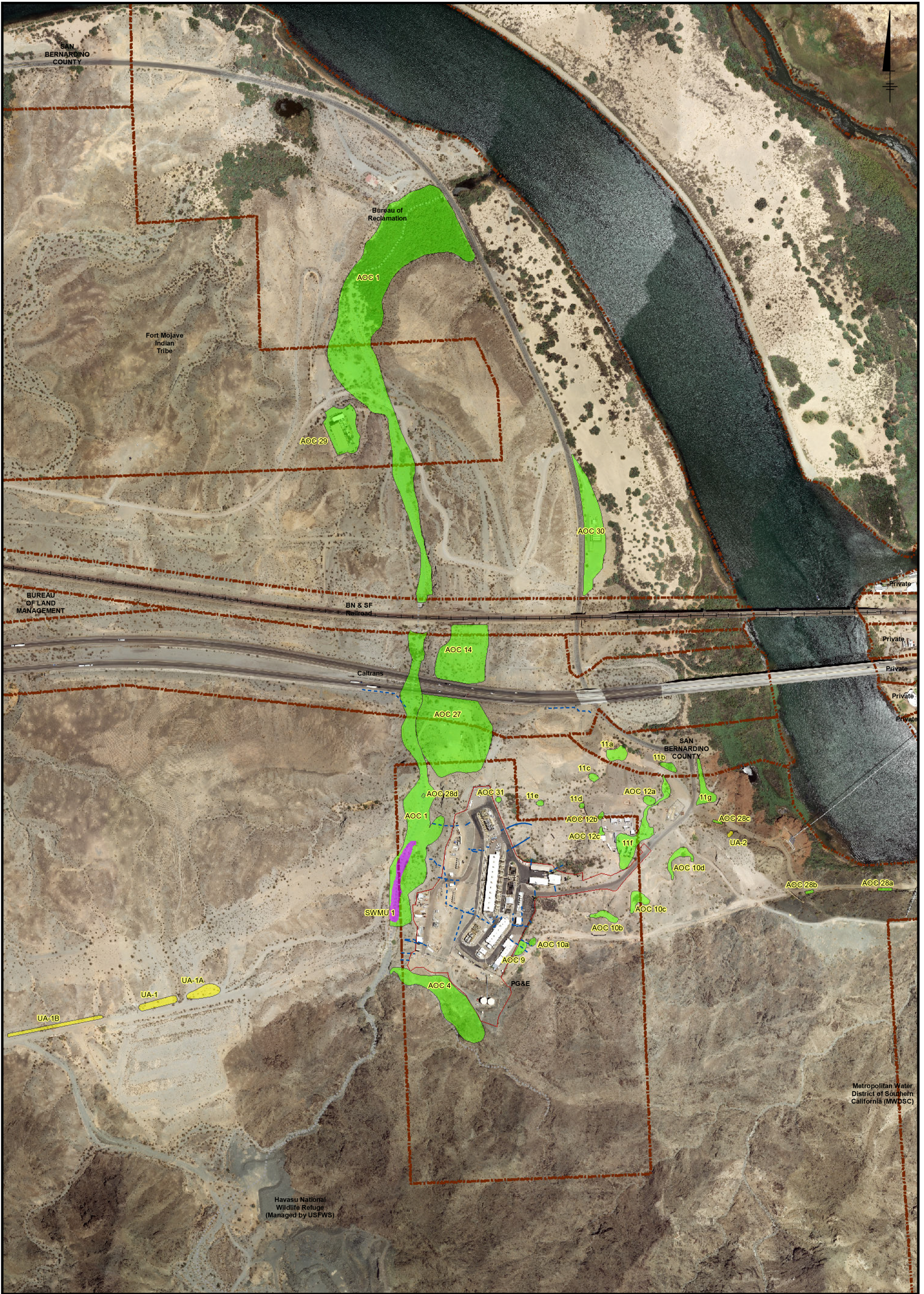
FIGURES

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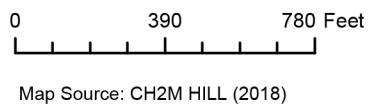
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SITE LOCATION MAP



LEGEND

- Area of Concern (AOC)
- Solid Waste Management Unit (SWMU)
- Other Area
- Stormwater Piping Below Ground
- Stormwater Piping Above Ground
- Topock Compressor Station Fence Line
- Property Owner Area

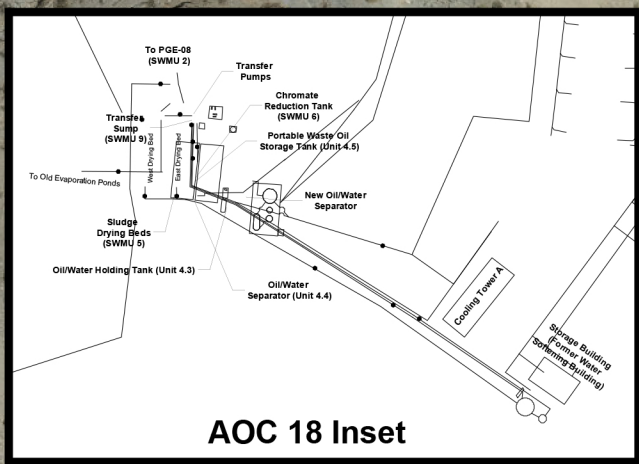


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**SWMUs AND AOCs
 (OUTSIDE THE COMPRESSOR STATION)**

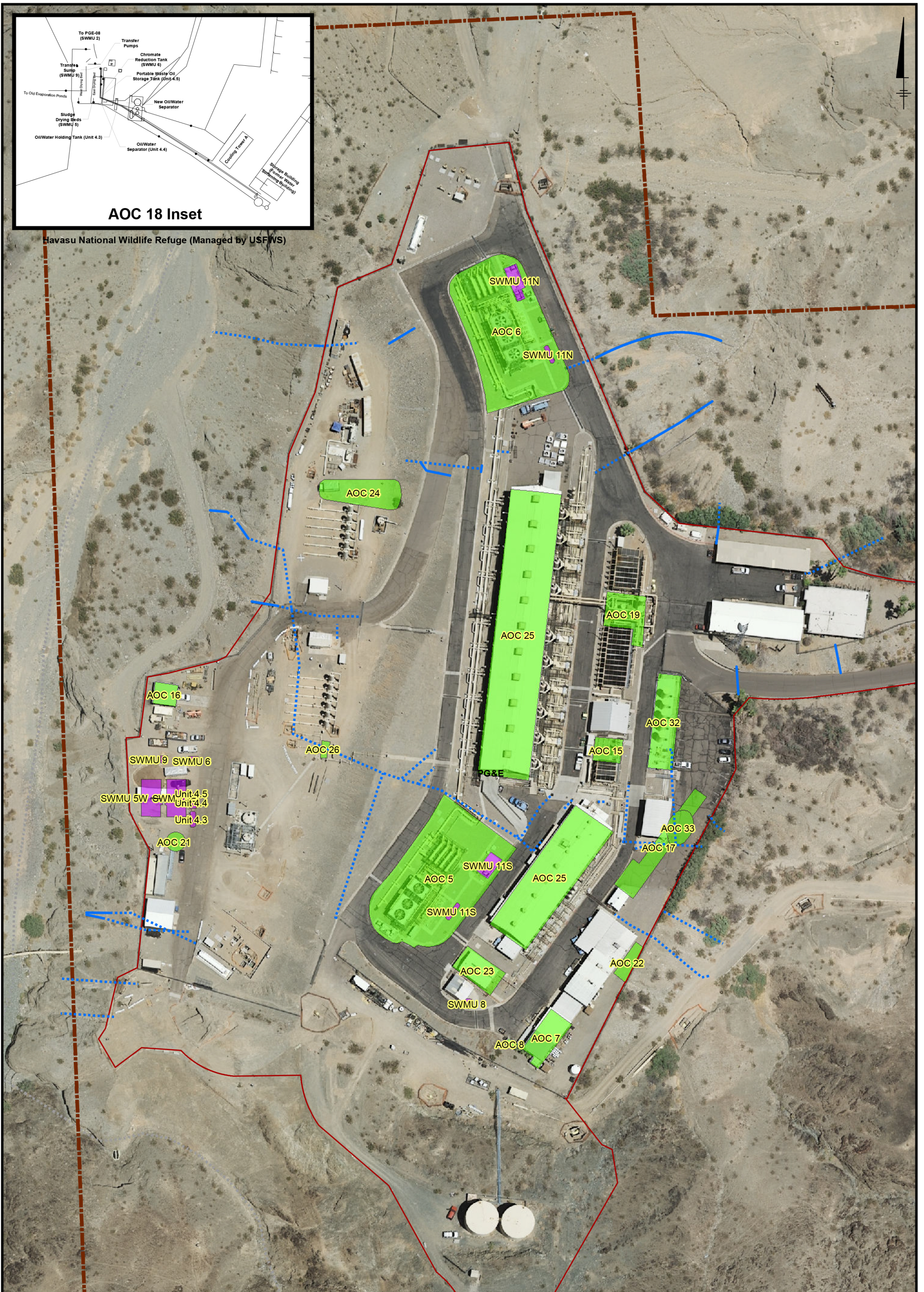


FIGURE
2-1



AOC 18 Inset

Havasasu National Wildlife Refuge (Managed by USFWS)



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
- Property Owner Area

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.

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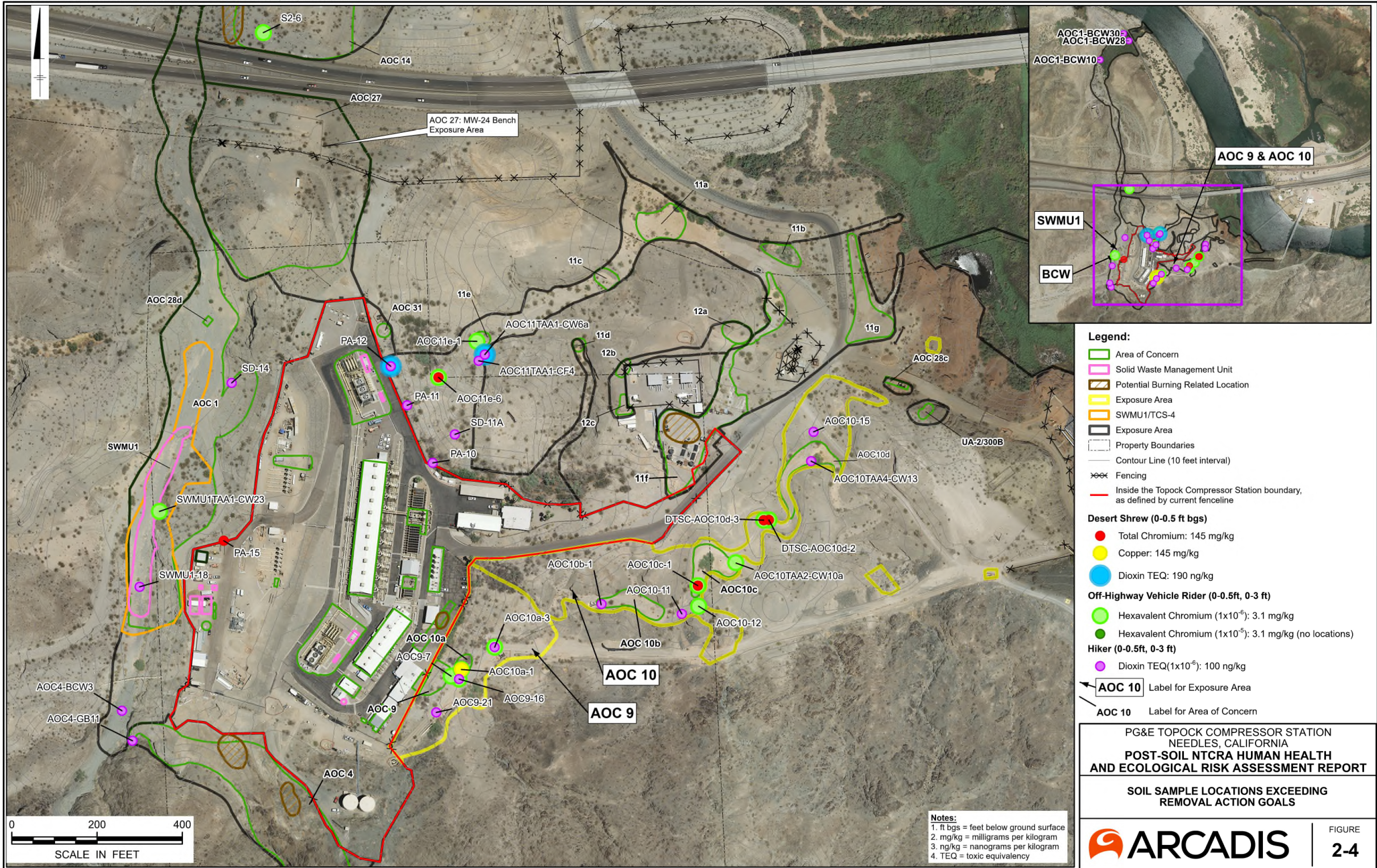
**SWMUs AND AOCs
(INSIDE THE COMPRESSOR STATION)**



FIGURE
2-2

0 100 200 Feet

Map Source: CH2M HILL (2018)



Legend:

- Area of Concern
- Solid Waste Management Unit
- Potential Burning Related Location
- Exposure Area
- SWMU1/TCS-4
- Exposure Area
- Property Boundaries
- Contour Line (10 feet interval)
- Fencing
- Inside the Topock Compressor Station boundary, as defined by current fenceline

Desert Shrew (0-0.5 ft bgs)

- Total Chromium: 145 mg/kg
- Copper: 145 mg/kg
- Dioxin TEQ: 190 ng/kg

Off-Highway Vehicle Rider (0-0.5ft, 0-3 ft)

- Hexavalent Chromium (1×10^{-6}): 3.1 mg/kg
- Hexavalent Chromium (1×10^{-5}): 3.1 mg/kg (no locations)

Hiker (0-0.5ft, 0-3 ft)

- Dioxin TEQ(1×10^{-6}): 100 ng/kg

AOC 10 Label for Exposure Area

AOC 10 Label for Area of Concern

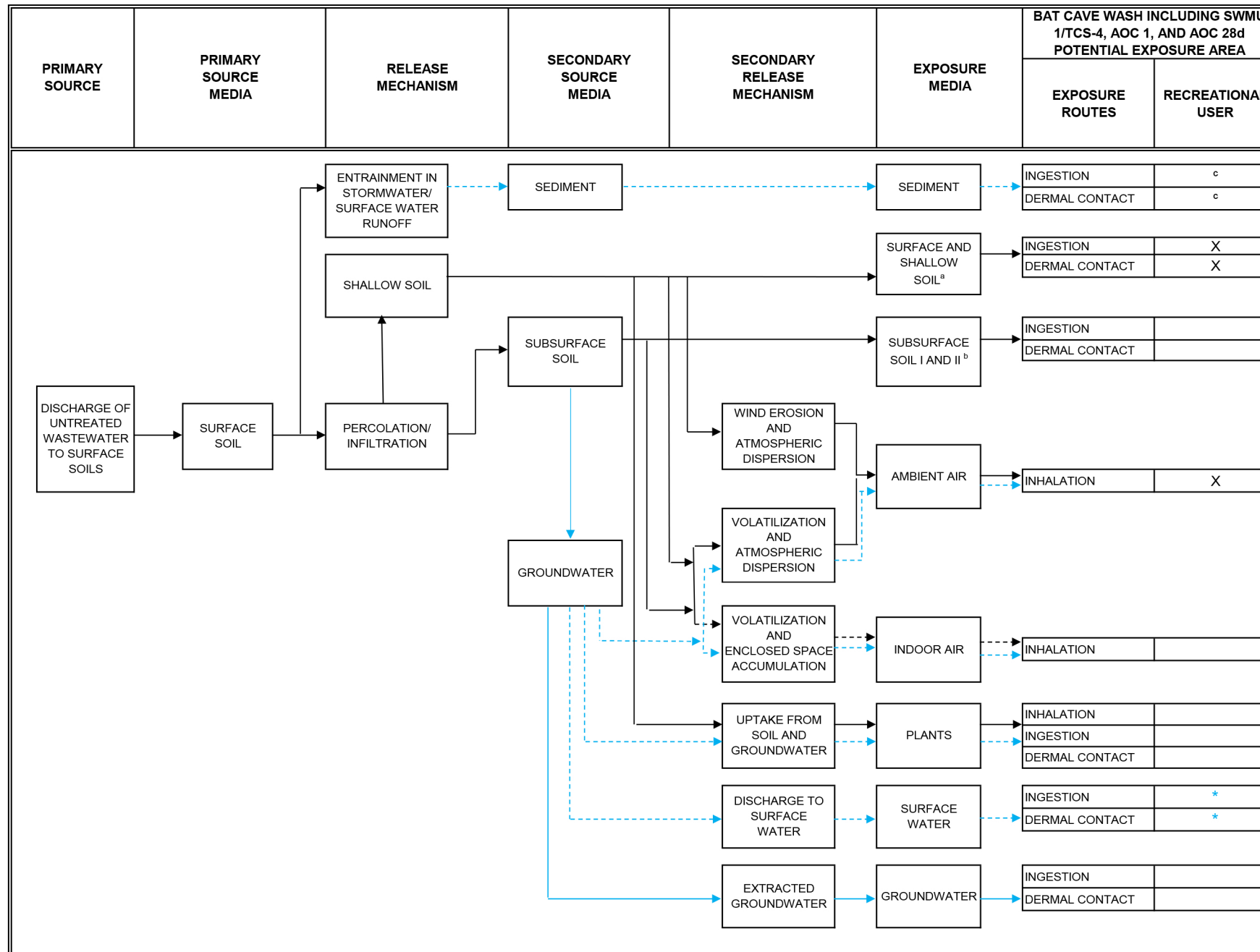
Notes:
 1. ft bgs = feet below ground surface
 2. mg/kg = milligrams per kilogram
 3. ng/kg = nanograms per kilogram
 4. TEQ = toxic equivalency

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**SOIL SAMPLE LOCATIONS EXCEEDING
 REMOVAL ACTION GOALS**

Figure 2-5
Updated^[1] Human Health Conceptual Site Model for Bat Cave Wash: Recreational Users

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NOTES:

[1] Conceptual site model (CSM) from the Topock Final Human Health and Ecological Risk Assessment Work Plan (RAWP; Arcadis 2008a), updated with information based on the Topock Groundwater Risk Assessment (GWRA; Arcadis 2009c), the Topock Final Human Health and Ecological Risk Assessment Work Plan Addendum 2 (Arcadis 2015) and recent soil investigations.

a Surface soils defined as soils collected at depths between 0 and 0.5 feet below ground surface (bgs); shallow soil defined as soil collected between 0 and 3 feet bgs.

b Subsurface soil I defined as soil collected between depths of 0 and 6 feet bgs; subsurface soil II defined as soil collected between 0 and 10 feet bgs.

c Insignificant exposure route.

→ Potentially complete transport pathway to be included in the quantitative soil risk assessment.

----- Insignificant transport pathway.

→ Quantitative evaluation of the groundwater pathway completed in the GWRA (Arcadis 2009c).

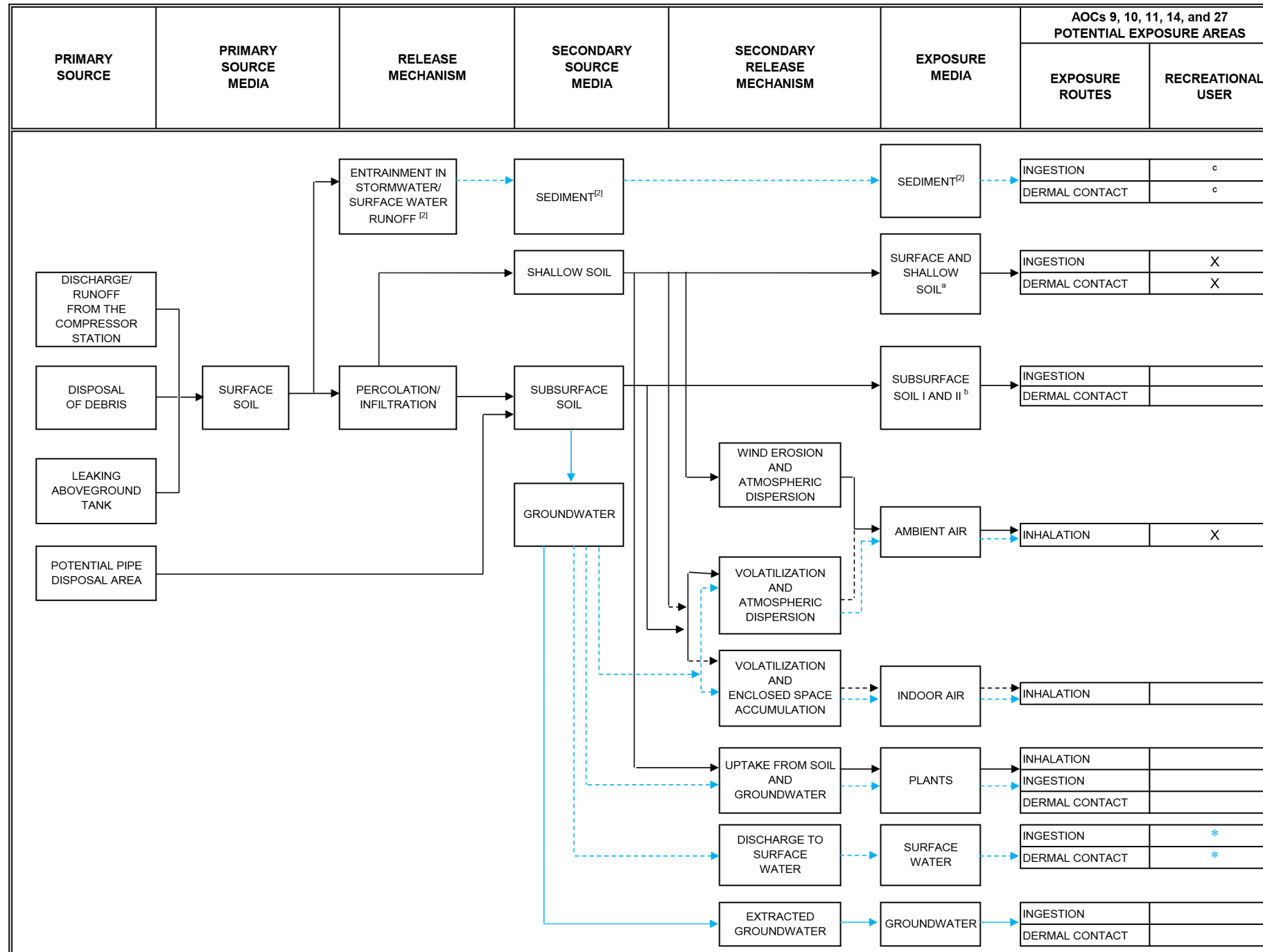
----- Insignificant transport pathway as evaluated in the GWRA (Arcadis 2009b) for groundwater.

X Potentially complete exposure route to be included in the quantitative soil risk assessment; quantitative evaluation of groundwater exposure route completed in the GWRA (ARCADIS, 2009c).

* Insignificant exposure route as evaluated in the GWRA (Arcadis 2009c).

Figure 2-6
Updated^[1] Human Health Conceptual Site Model for AOCs 9, 10, 11, 14, and 27: Recreational Users

Post-Soil NTCRA Human Health and Ecological Risk Assessment Report
PG&E Topock Compressor Station
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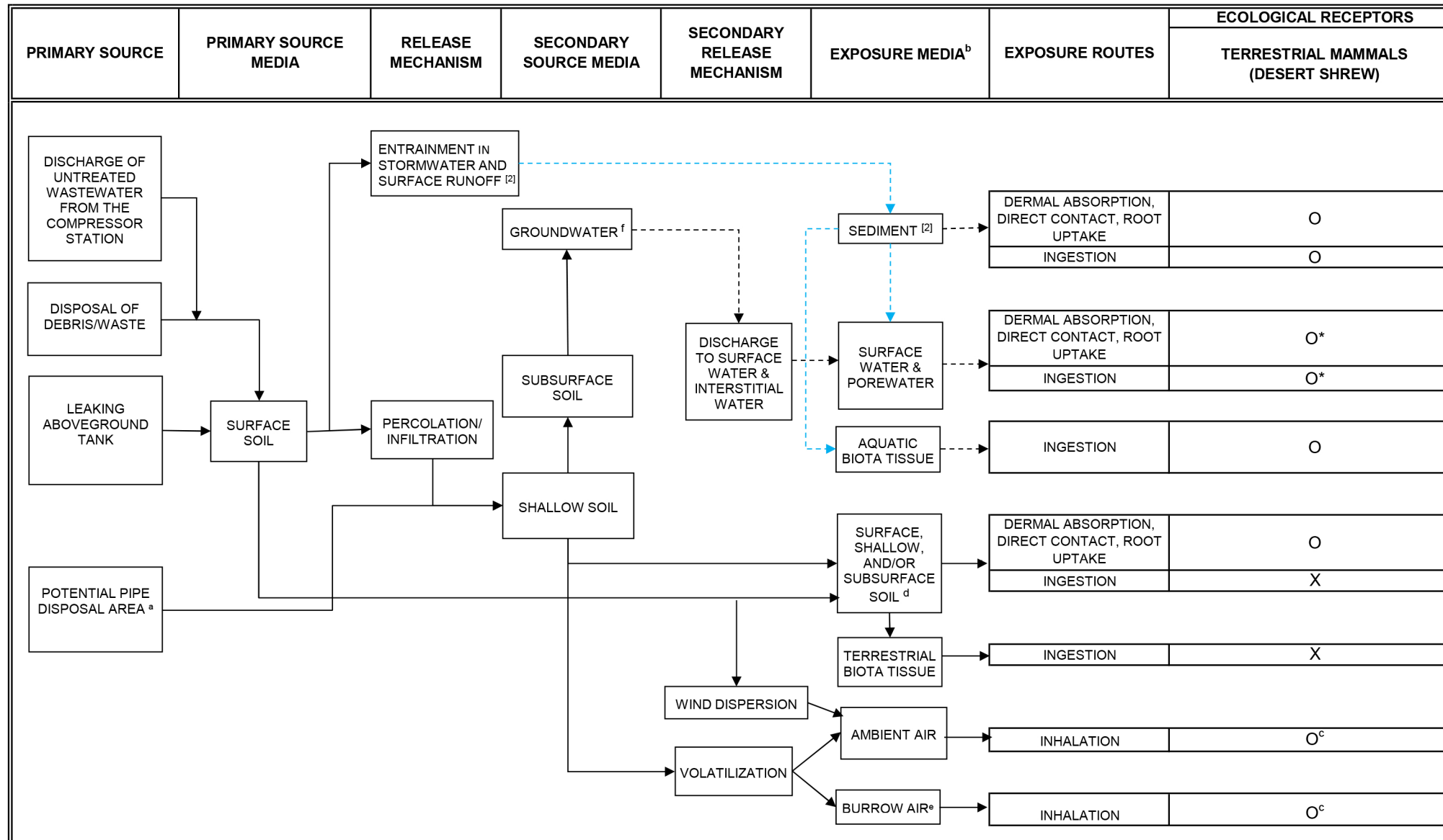


NOTES:

- [1] Conceptual site model (CSM) from the Topock Final Human Health and Ecological Risk Assessment Work Plan (RAWP; Arcadis 2008a) updated with information based on the Topock Groundwater Risk Assessment (GWRA; Arcadis 2009c), the Topock Final Human Health and Ecological Risk Assessment Work Plan Addendum 2 (Arcadis 2015) and recent soil investigations.
- [2] Applicable to AOC 10 only.
- a Surface soils defined as soils collected at depths between 0 and 0.5 feet below ground surface (bgs); shallow soil defined as soil collected between 0 and 3 feet bgs.
- b Subsurface soil I defined as soil collected between depths of 0 and 6 feet bgs; subsurface soil II defined as soil collected between 0 and 10 feet bgs.
- c Insignificant exposure route.
- Potentially complete transport pathway to be included in the quantitative risk assessment.
- - - - - Insignificant transport pathway.
- Quantitative evaluation of the groundwater pathway completed in the GWRA (Arcadis 2009c).
- - - - - Insignificant transport pathway as evaluated in the GWRA (Arcadis 2009c) for groundwater.
- X Potentially complete exposure route to be included in the quantitative soil risk assessment; quantitative evaluation of groundwater exposure route completed in the GWRA (Arcadis 2009c).
- * Insignificant exposure route as evaluated in the GWRA (Arcadis 2009c).

FIGURE 2-7
Updated^[1] Ecological Conceptual Site Model

Post-Soil NTCRA Human Health and Ecological Risk Assessment Report
PG&E Topock Compressor Station
Needles, California



NOTES:

- [1] Conceptual site model (CSM) from the Topock Final Human Health and Ecological Risk Assessment Work Plan Addendum 2 (RAWP; ARCADIS 2015) updated with information based the
- [2] Applicable to AOC 1 and AOC 10 only. Ephemeral flooding is due to infrequent high flows in the wash.
- Potentially complete exposure pathway
- Insignificant transport pathway as evaluated in Section 2.5.2.5 (Surface Soil Transport Assessment [SSTA]) of the 2019 H H E R A.
- - - - -→ Insignificant transport pathway as evaluated in the Topock Groundwater Risk Assessment (GWRA; ARCADIS 2009) and confirmed in the RFI/RI Volume 3 report (Jacobs 2024).
- * Insignificant exposure route as evaluated in the GWRA (ARCADIS 2009).
- X Potentially complete exposure route, assumed significant and directly assessed.
- O Potentially complete exposure route, assumed insignificant and not directly assessed.
- AOC Area of concern
- a The Former 300B Pipeline Liquids Tank area has already been closed (CH2M HILL 2007), but DTSC requested additional investigation (CalEPA 2007). This area was included as part of the UA-2 exposure area in the 2019 H H E R A.
- b For small home range ecological receptors, 6 individual exposure areas were evaluated: BCW, AOC9, AOC10, AOC11, AOC12, AOC14, and AOC 27.
- c All exposure pathways inside the compressor station are considered incomplete and will not be evaluated for ecological receptors.
- d Potential inhalation exposure in burrows was considered an insignificant pathway based on infrequent and low concentration detections of volatile organic compounds (VOCs) in soil.
- e Applicable soil depth is 0 to 6 feet below ground surface (bgs) for volatilization to burrow air.
- f As requested by California's Department of Toxic Substances Control (DTSC), the groundwater-to-phreatophytes pathway and consumption of phreatophytes by herbivores were evaluated in the GWRA (ARCADIS 2009) and exposure and risk were found to be insignificant.