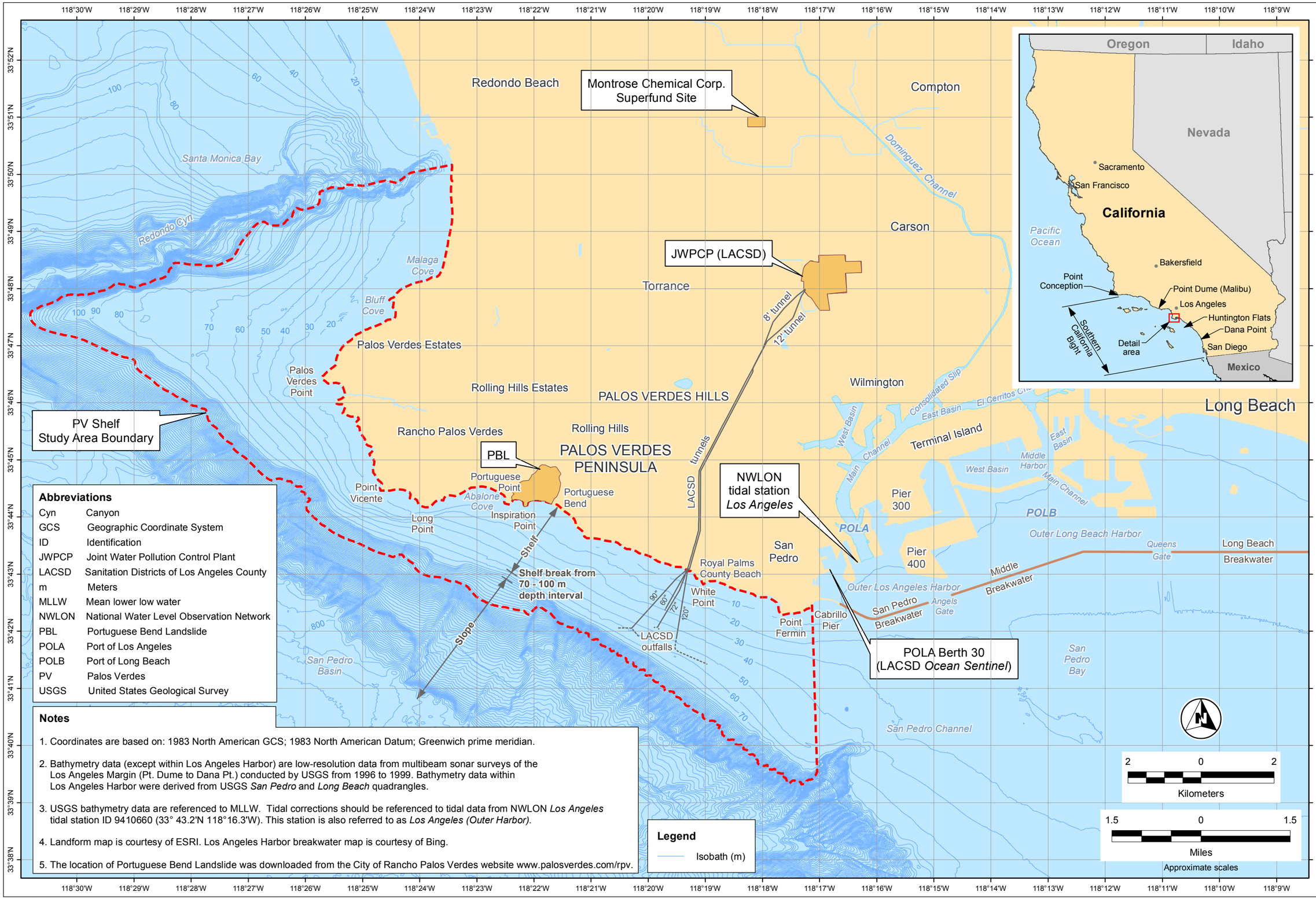
FIGURES



Abbreviations

Cyn	Canyon
GCS	Geographic Coordinate System
ID	Identification
JWPCP	Joint Water Pollution Control Plant
LACSD	Sanitation Districts of Los Angeles County
m	Meters
MLLW	Mean lower low water
NWLON	National Water Level Observation Network
PBL	Portuguese Bend Landslide
POLA	Port of Los Angeles
POLB	Port of Long Beach
PV	Palos Verdes
USGS	United States Geological Survey

Notes

1. Coordinates are based on: 1983 North American GCS; 1983 North American Datum; Greenwich prime meridian.
2. Bathymetry data (except within Los Angeles Harbor) are low-resolution data from multibeam sonar surveys of the Los Angeles Margin (Pt. Dume to Dana Pt.) conducted by USGS from 1996 to 1999. Bathymetry data within Los Angeles Harbor were derived from USGS *San Pedro* and *Long Beach* quadrangles.
3. USGS bathymetry data are referenced to MLLW. Tidal corrections should be referenced to tidal data from NWLON *Los Angeles* tidal station ID 9410660 (33° 43.2'N 118°16.3'W). This station is also referred to as *Los Angeles (Outer Harbor)*.
4. Landform map is courtesy of ESRI. Los Angeles Harbor breakwater map is courtesy of Bing.
5. The location of Portuguese Bend Landslide was downloaded from the City of Rancho Palos Verdes website www.palosverdes.com/rpv.

FIGURE 1
Location Maps - PV Shelf Study Area

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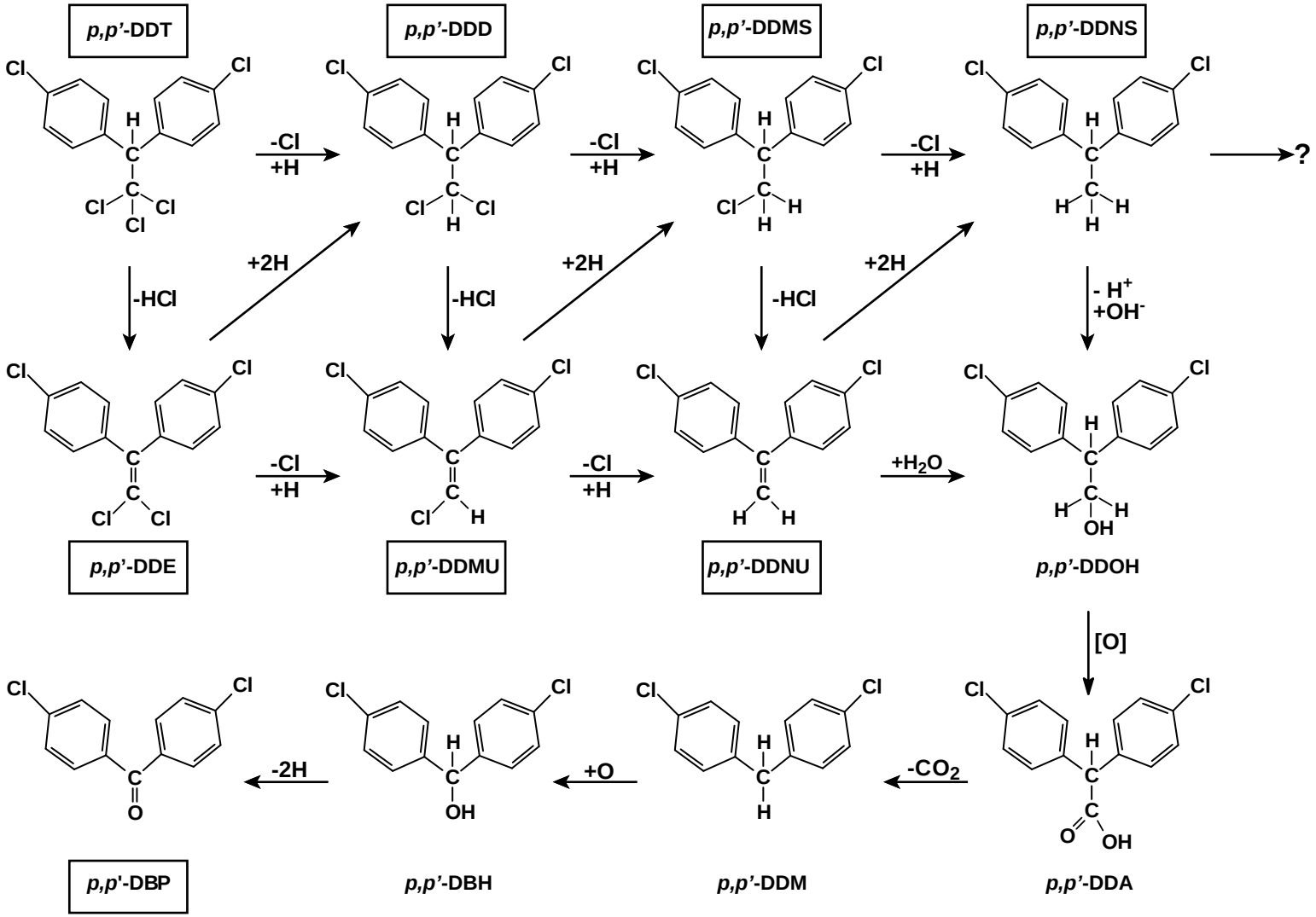

Notes

1. Chemicals with names enclosed in boxes have been detected in samples of PV Shelf sediment.
2. This figure is from Eganhouse *et al.*, 2007.

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FIGURE 2
Pathways for DDT Degradation

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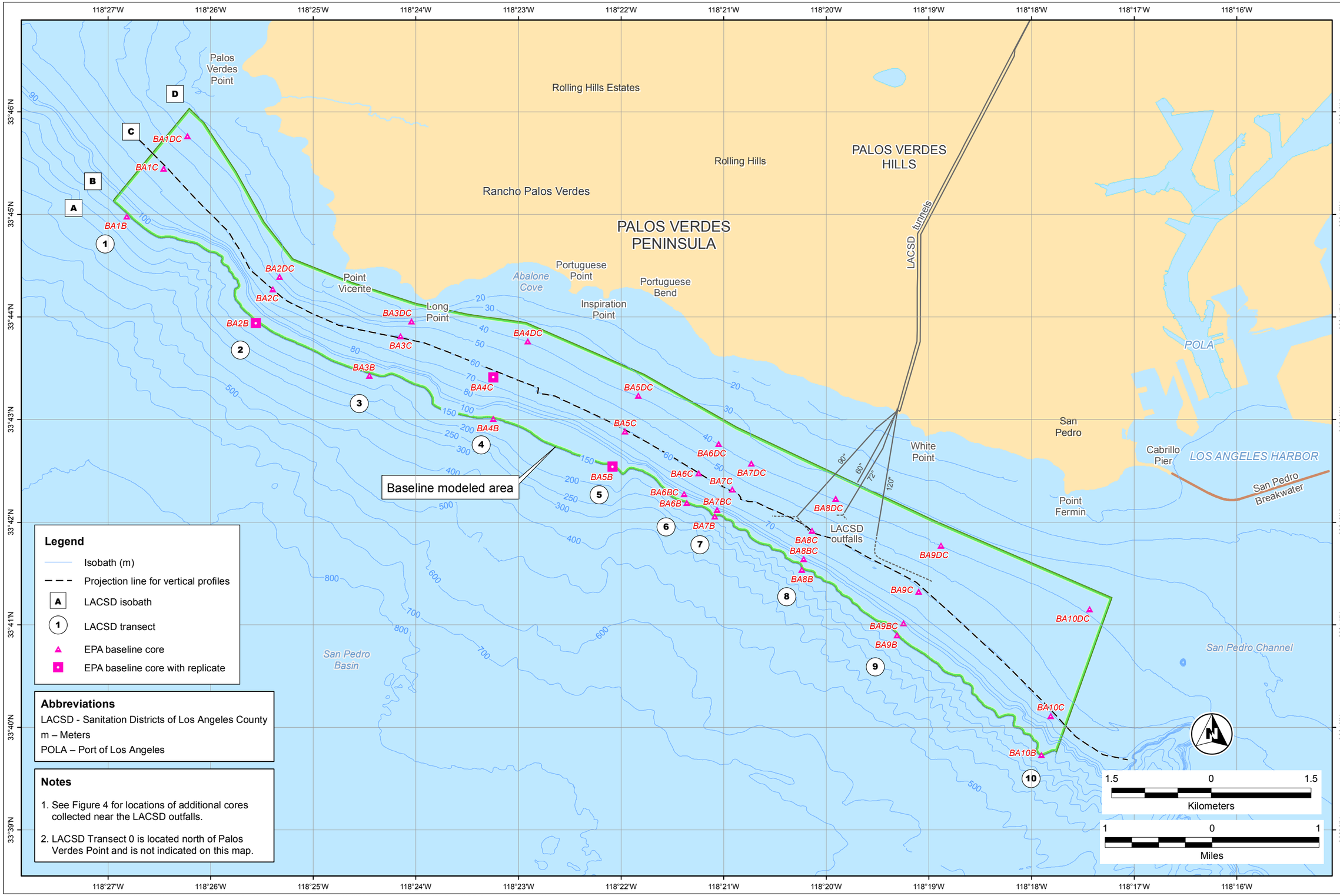

FIGURE 3
Locations of EPA
Baseline Sediment Cores

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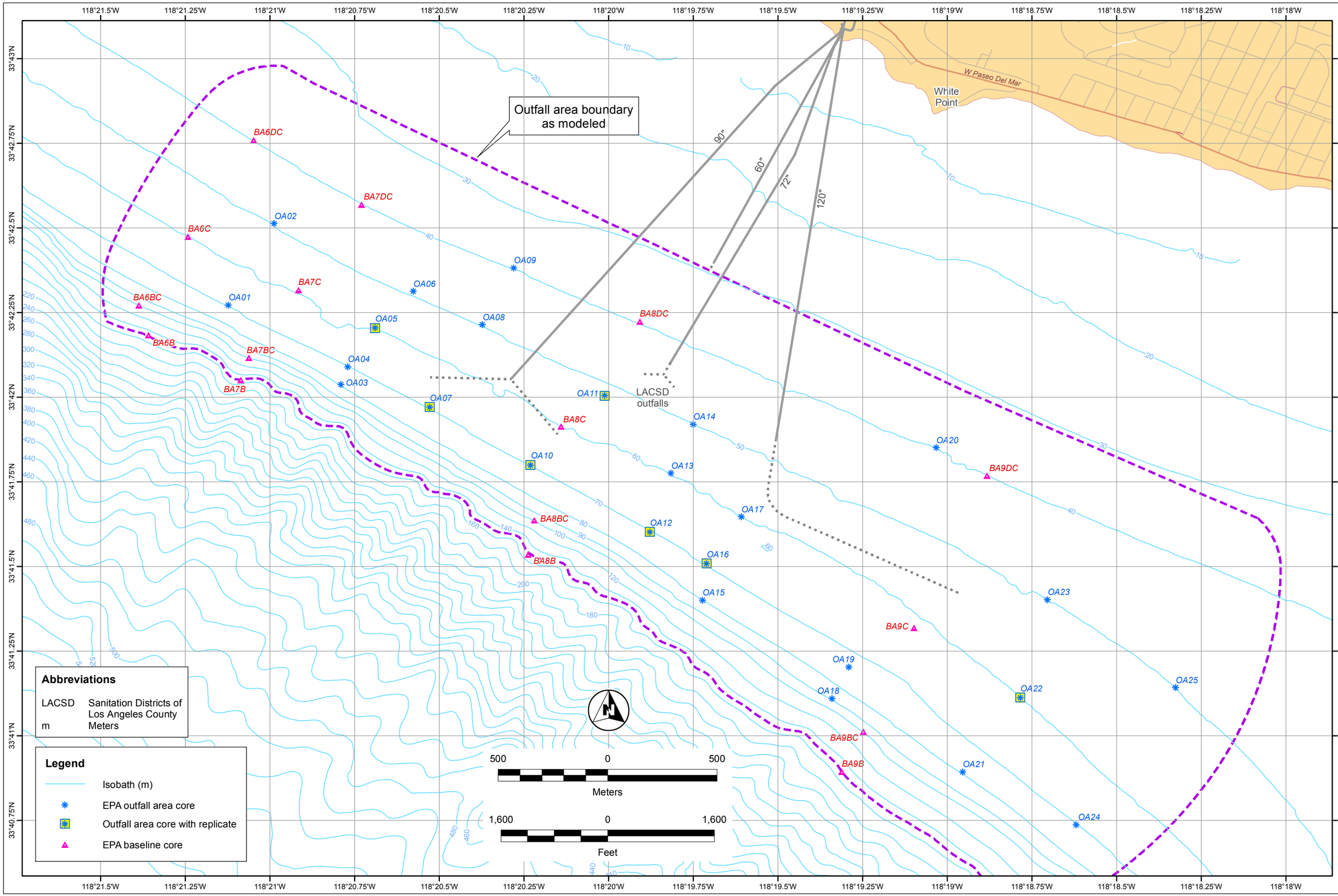

FIGURE 4
Locations of EPA
Outfall Area Sediment Cores

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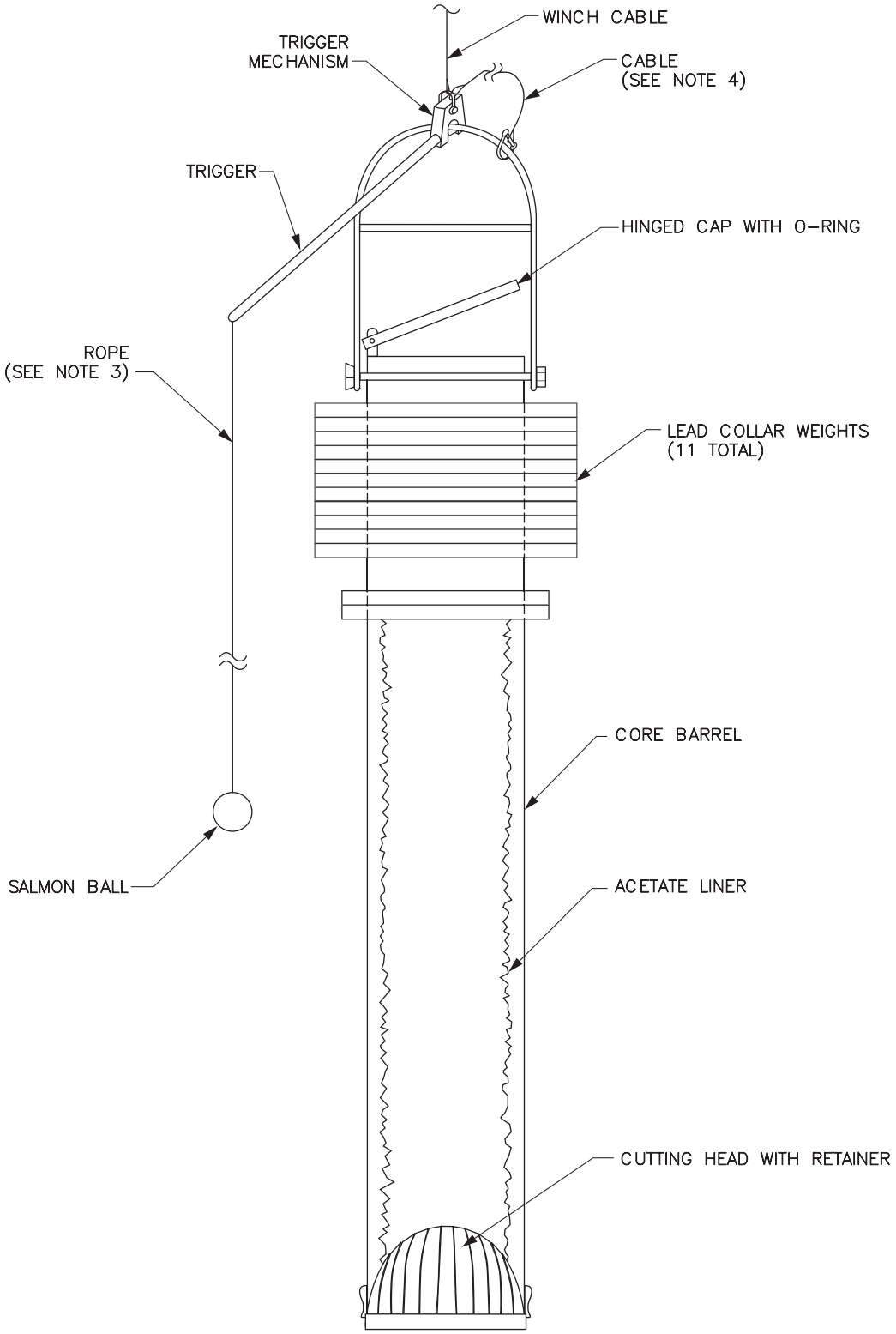

Notes

1. This drawing is not to scale.
2. The hinged cap is open during the drop through the water column. Upon impact with the sediment bed, the cap closes, forming a water-tight seal.
3. The rope is actually longer than the core assembly. When the salmon ball hits the sediment bed, the trigger mechanism is fired, releasing the trigger from the core assembly to allow additional free-fall into the sediment bed.
4. The cable keeps the trigger and core assembly attached after the trigger mechanism has fired.

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FIGURE 5
Schematic of LACSD's Gravity Corer

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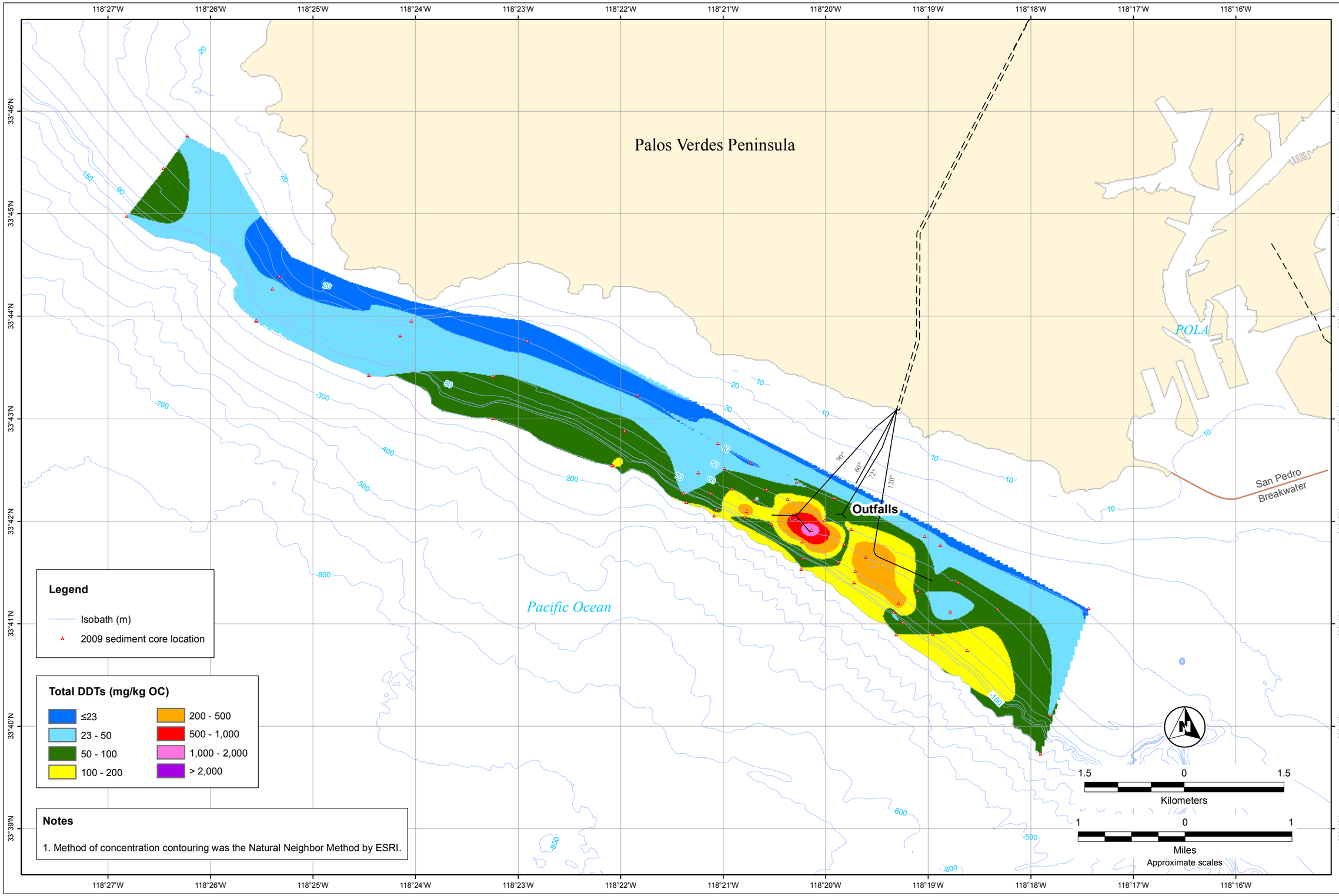

FIGURE 6
Interpretive Carbon-Normalized Total DDTs (0-8-cm Interval)

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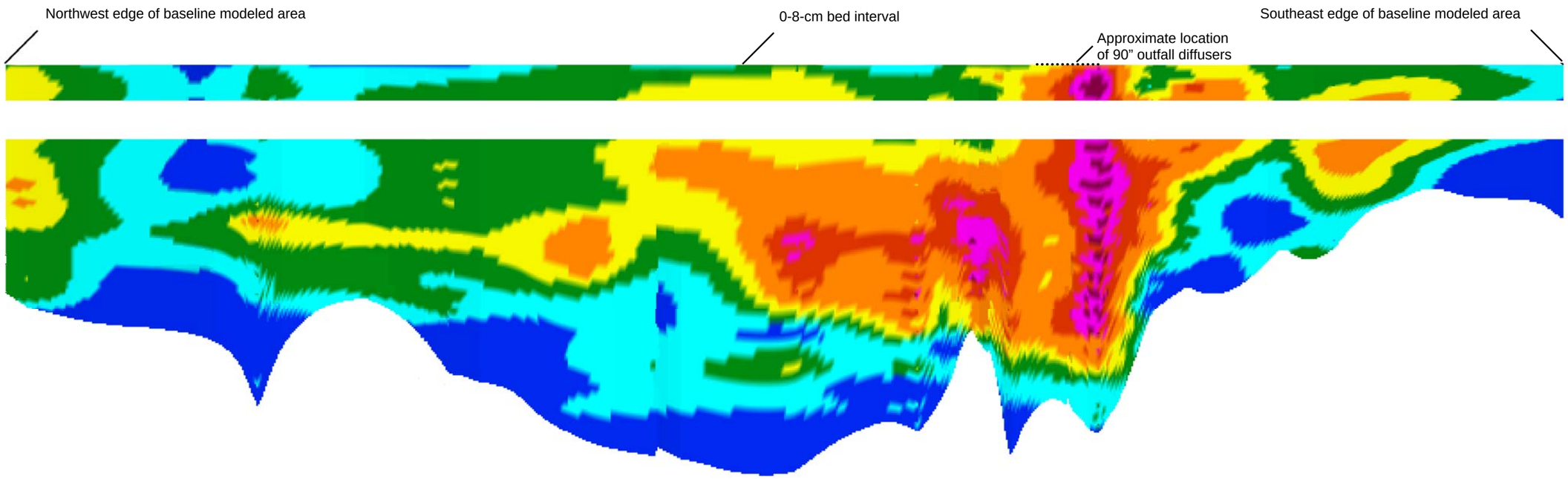

Total DDTs (ug/kg)

<230	2,000 - 5,000
230 - 500	5,000 - 10,000
500 - 1,000	10,000 - 20,000
1,000 - 2,000	>20,000

Notes

1. Data were not normalized for organic carbon.
2. Vertical scale is in centimeters. Vertical scale is exaggerated by a factor of approximately 4,400.
3. Bed interval of 0-8 cm is shown separated from the remainder of the vertical profile.
4. View is from the Pacific Ocean towards the shoreline.
5. The profile is a flattened rendition of the 60-m isobath. The concentration isopleths may appear disjointed and irregular at bends in the actual 60-m isobath. (Bends appear as folds).
6. Edges of the baseline modeled area are shown on Figure 3.

0 1.37
Kilometers

Abbreviations

LACSD	Sanitation Districts of Los Angeles County
ug/kg	Micrograms per kilogram

FIGURE 7
Vertical Profile: Interpretive
Total DDTs along 60-m Isobath

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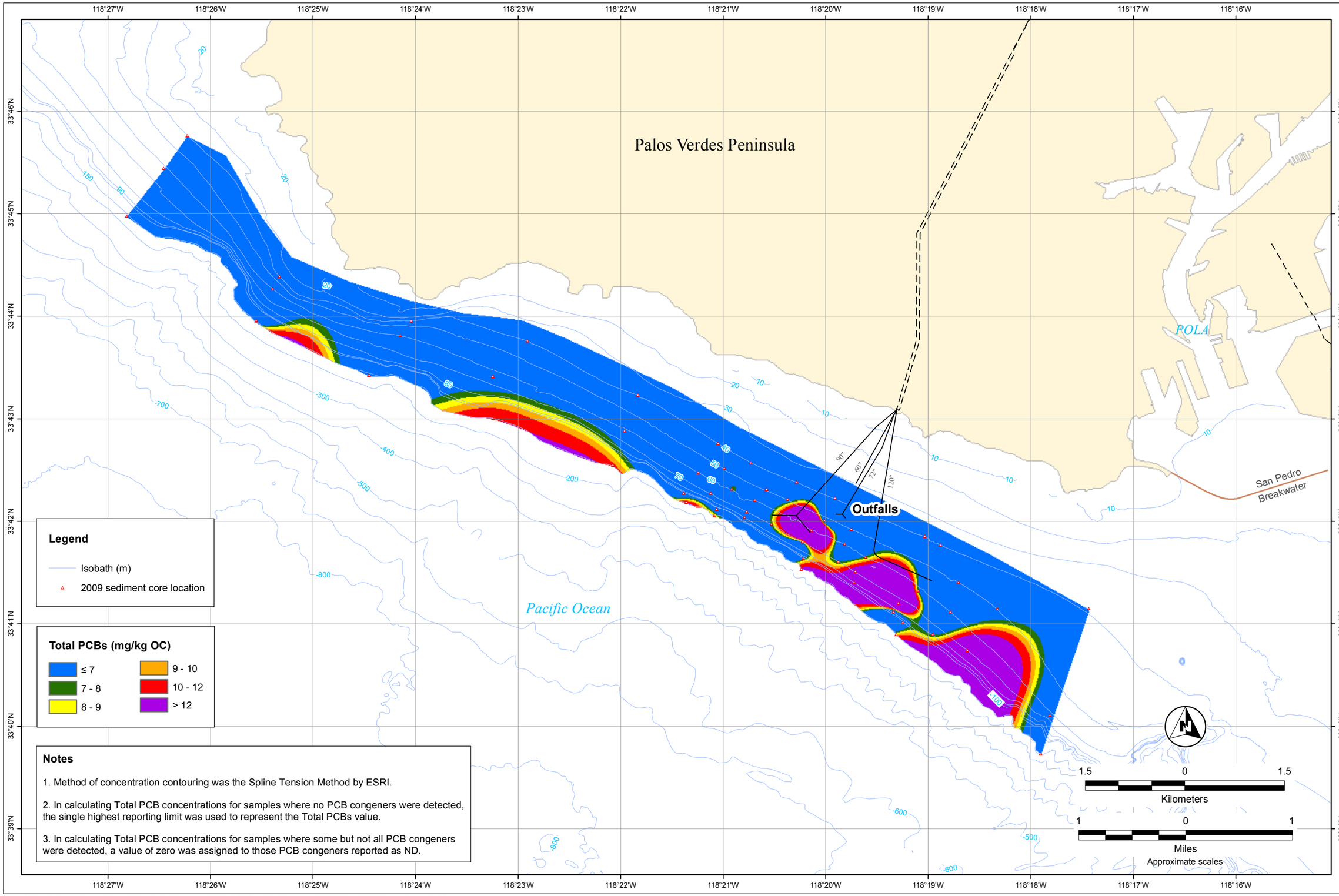

FIGURE 8
Interpretive Carbon-Normalized Total PCBs (0-8-cm Interval)

Fall 2009 Sediment Sampling Program
Palos Verdes Shelf
Los Angeles County, California

United States Environmental Protection Agency

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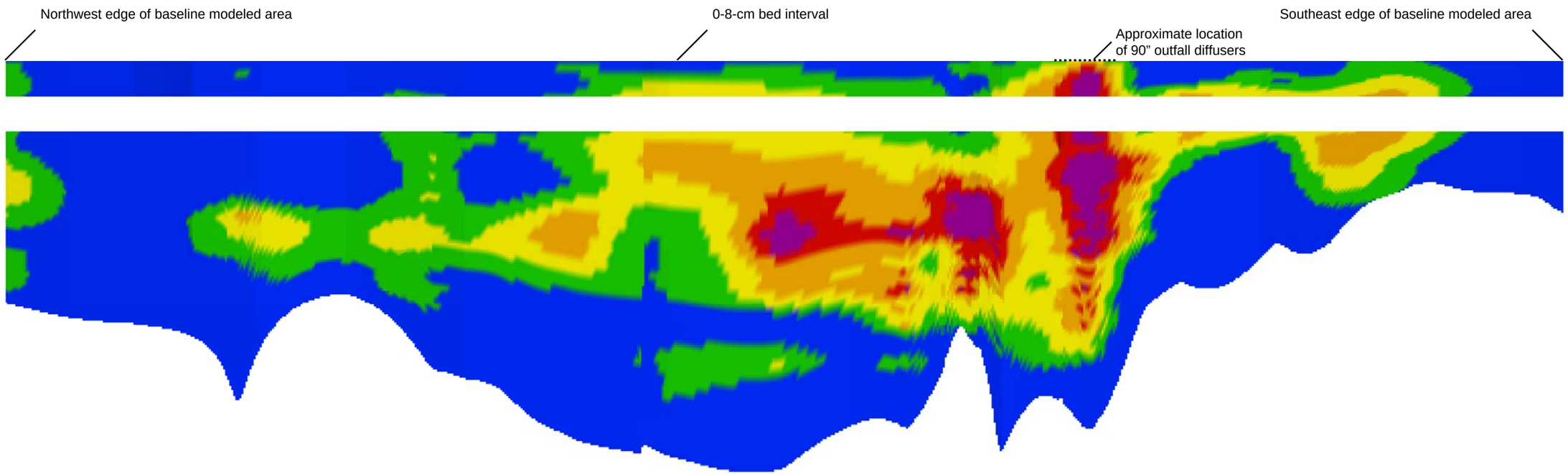

Total PCBs (ug/kg)

- 5 - 70
- 70 - 150
- 150 - 300
- 300 - 600
- 600 - 1,000
- >1,000

Notes

1. Data were not normalized for organic carbon.
2. Vertical scale is in centimeters. Vertical scale is exaggerated by a factor of approximately 4,400.
3. Bed interval of 0-8 cm is shown separated from the remainder of the vertical profile.
4. View is from the Pacific Ocean towards the shoreline.
5. The profile is a flattened rendition of the 60-m isobath. The concentration isopleths may appear disjointed and irregular at bends in the actual 60-m isobath. (Bends appear as folds).
6. Edges of the baseline modeled area are shown on Figure 3.

0 1.37
Kilometers

Abbreviations

LACSD	Sanitation Districts of Los Angeles County
ug/kg	Micrograms per kilogram

FIGURE 9
Vertical Profile: Interpretive
Total PCBs along 60-m Isobath

Fall 2009 Sediment Sampling Program
Palos Verdes Shelf
Los Angeles County, California

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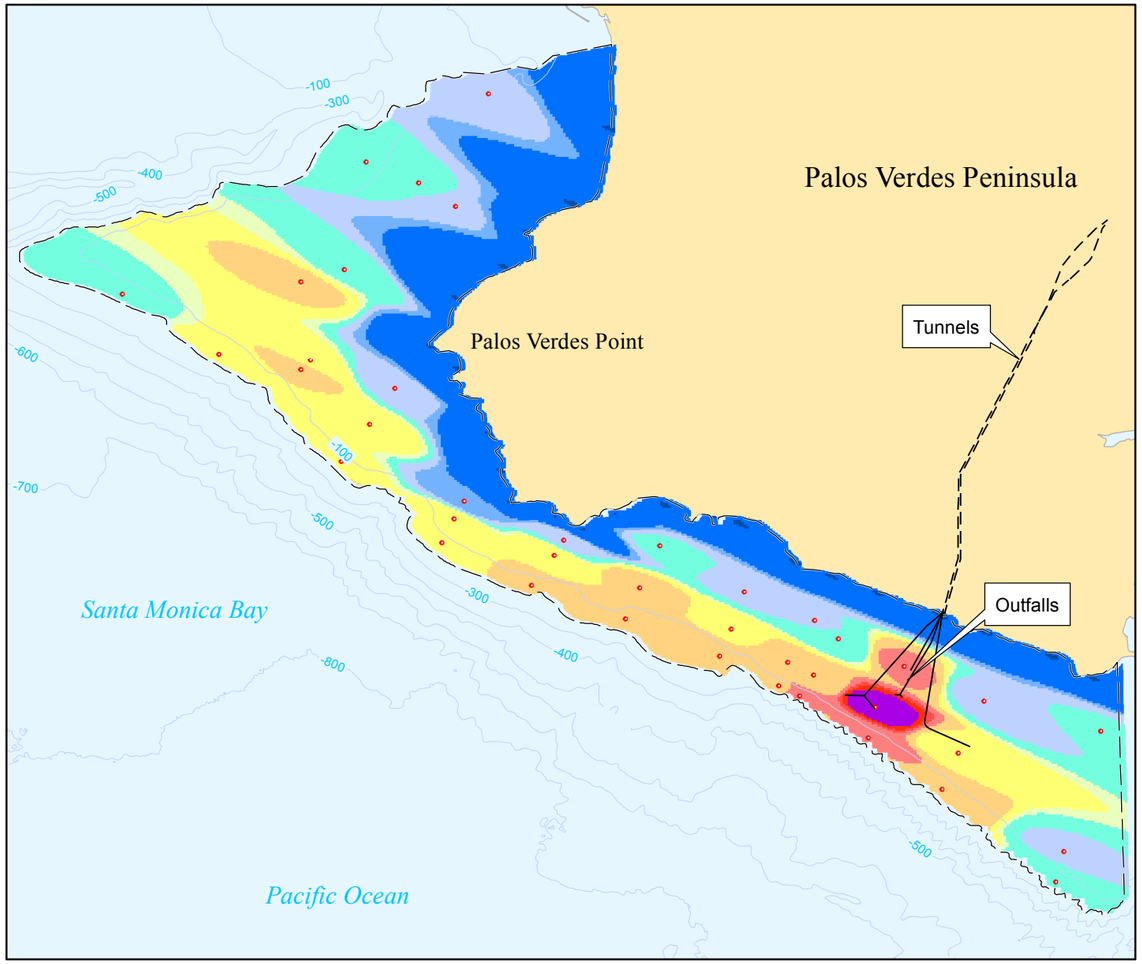
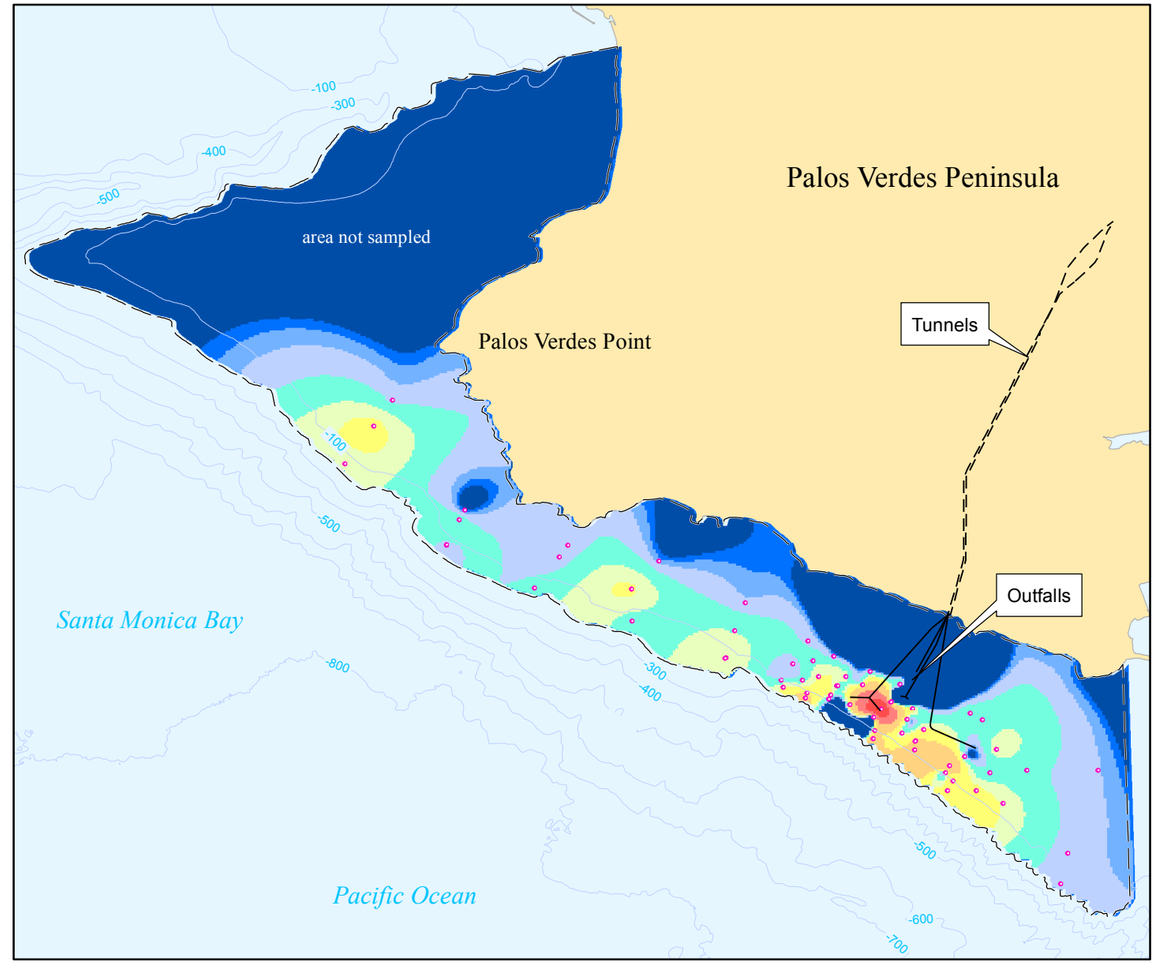


2002/2004 Data Set



2009 Data Set

DDTs (mg/kg)

0 - 0.05	0.5 - 1	10 - 25
0.05 - 0.1	1.0 - 1.5	25 - 50
0.1 - 0.2	1.5 - 3	50 - 90
0.2 - 0.5	3 - 10	90 - 155

Notes

1. Concentrations at shoreline locations were assumed to be 0.05 mg/kg for contouring purposes only.
2. The 2002/2004 data set was based on results of samples collected by LACSD using the Van Veen sampler. To provide data north of Palos Verdes Point, this data set also used results from four Bight 1994 samples; one 1993 LACSD sample; and two 1992 NOAA samples.
3. Concentrations are not normalized for organic carbon.

3.5 0 3.5
Kilometers
Approximate scale

FIGURE 10
Interpretive DDTs in 0-2-cm Interval

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Palos Verdes Shelf
Los Angeles County, California

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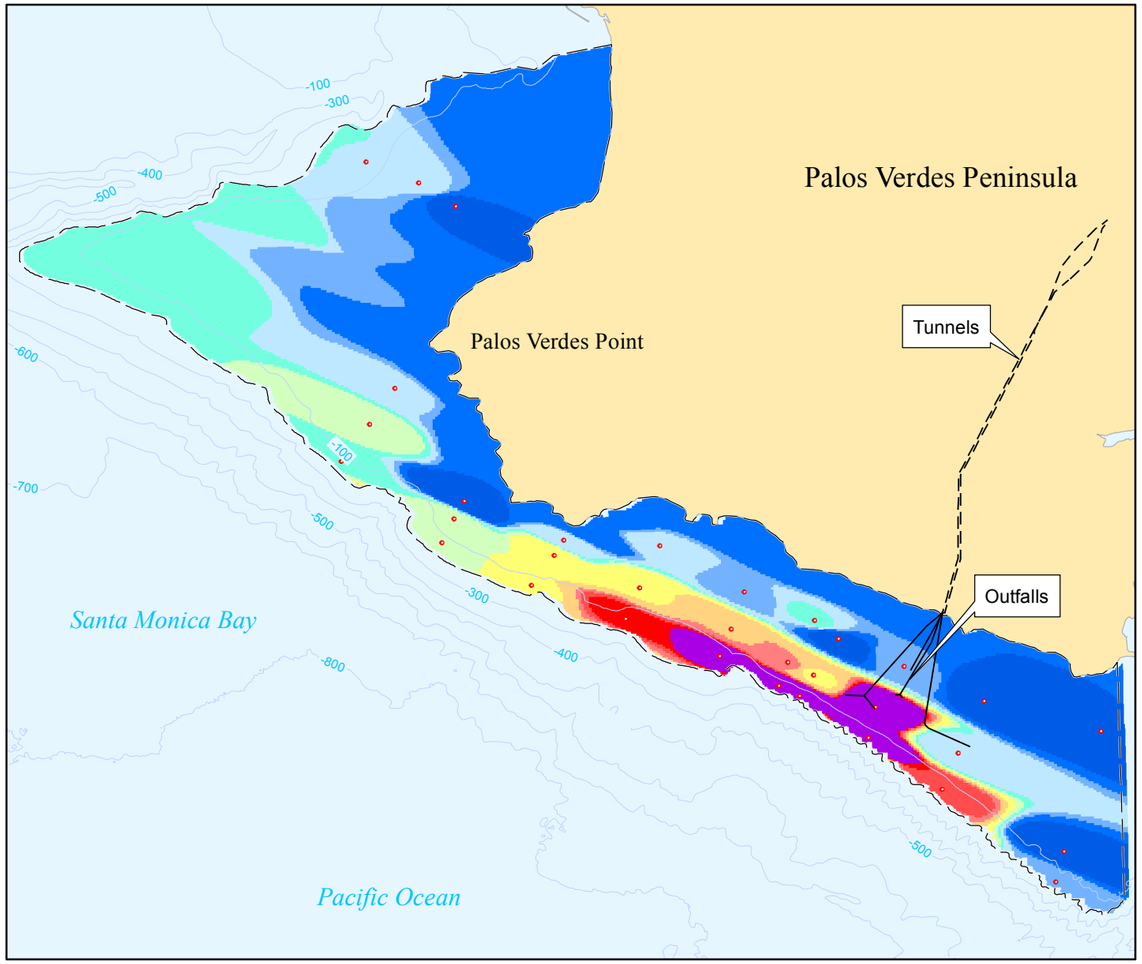
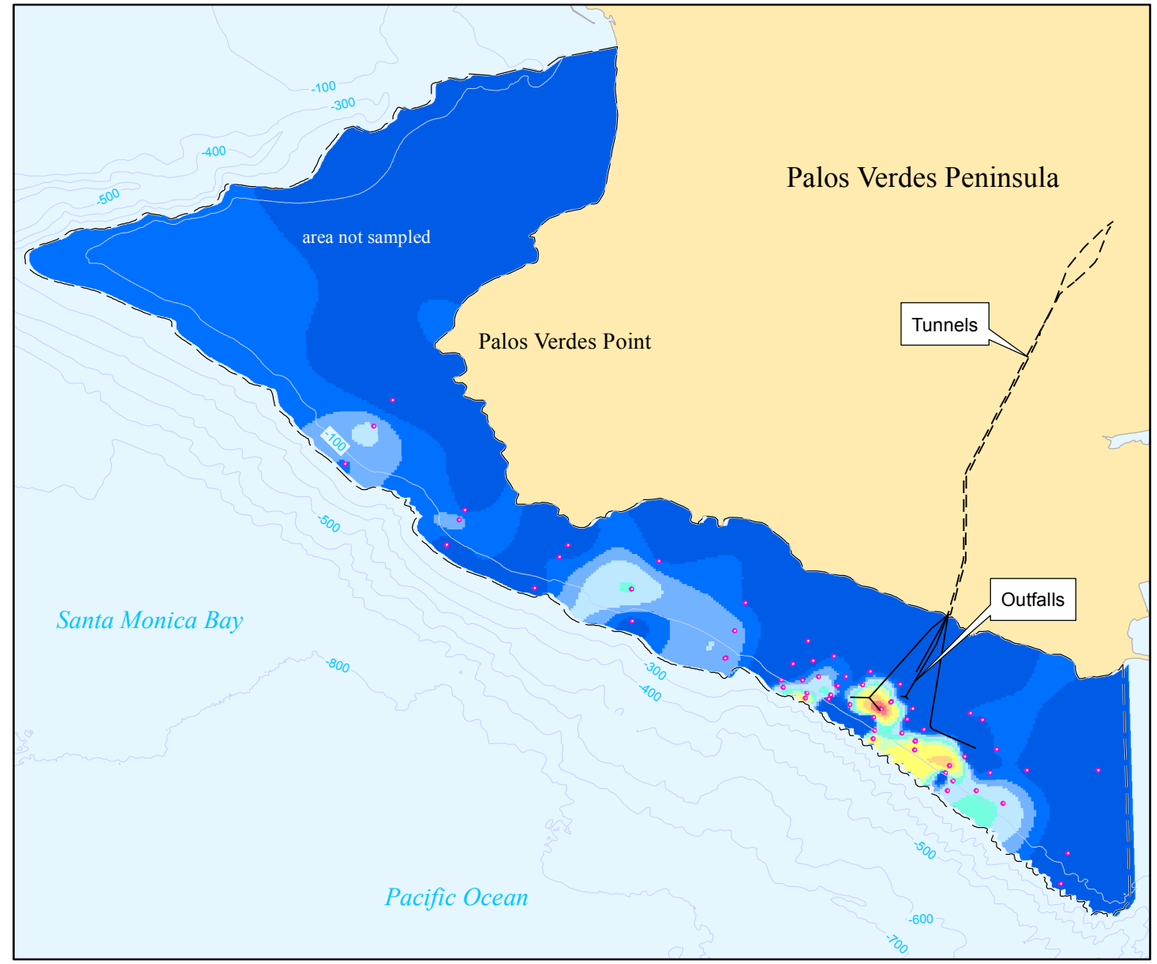


2002/2004 Data Set



2009 Data Set

Total PCBs (mg/kg)

0 - 0.05	0.15 - 0.2	0.75 - 1
0.05 - 0.075	0.2 - 0.3	1 - 1.25
0.075 - 0.1	0.3 - 0.5	1.25 - 1.5
0.1 - 0.15	0.5 - 0.75	1.5 - 2

Notes

1. Concentrations at shoreline locations were assumed to be 0.05 mg/kg for contouring purposes only.

2. The 2002/2004 data set was based on results of samples collected by LACSD using the Van Veen sampler. To provide data north of Palos Verdes Point, this data set also used results from four Bight 1994 samples; one 1993 LACSD sample; and two 1992 NOAA samples.

3. Concentrations are not normalized for organic carbon.

3.5 0 3.5

Kilometers

Approximate scale

FIGURE 11
Interpretive PCBs in 0-2-cm Interval

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Palos Verdes Shelf
Los Angeles County, California

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