

**Permittee's Contact Information:**

Julia Mackin-McLaughlin  
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215-872-9073

Permit #: A2950 PRC 9664

**Select one:**

- New Survey
- New Survey Series
- Existing Survey Series
- Time Extension

**Section 1: Pre-Survey Notification Package.** Please use the boxes below to verify that the required documents are included in the Pre-Survey Notification Package:

- Pre-Survey Notification Form
- Navigation chart, as well as GPS coordinates or a shapefile for proposed track lines (bounding coordinates for the survey area are acceptable if track lines are not known; all coordinates should be in decimal degrees)
- Résumé(s) of Marine Wildlife Monitor(s)

**Section 2: Pre-Survey Notices.** Please use the boxes below to verify that notifications have been sent to the following:

- U.S. Coast Guard Local Notice to Mariners
- Harbormasters' offices of regional harbors near the survey area

**Section 3: Survey Details.**

Date(s) of operation (survey window): 12/4/2023-2/28/2024

Number of survey days (approximate): 3

Survey location: Palos Verdes Peninsula, Los Angeles County, CA

Hours of operation: 9am - 4pm daily

Survey purpose/objective:

We propose to monitor any changes in the structure or substrate around the area of the recently constructed Palos Verdes Reef.

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 SLC 602

**Section 4: Vessel Details.**

Vessel name: D/V Obscurus  
 Vessel official number: CF 1898 VH  
 Vessel captain's name: Julia Mackin-McLaughlin  
 Radio channel(s) to be monitored by vessel: VHF ch. 16

**Section 5: Survey Equipment Characteristics.**

<b>Equipment type</b>	EdgeTech 6205 Bathymetry and Side Scan Sonar
Frequency	540 kHz (Bathymetry and Side Scan) & 1600 kHz (Side Scan only)
Source level (dB re 1 uPa at 1 m [rms and peak])	215 & 216 (rms only)
Number of beams	2
Across and along track beamwidth	across = 100 deg along: 540 bathy = 0.5 deg; 540 kHz side scan = 0.36 deg along: 1600 kHz side scan = 0.2 deg
Pulse rate/length	rate: up to 60 Hz length: 540 side scan = 0.25 - 3.7 ms; 1600 = 0.12 - 1.12 ms
Rise time	NA
Source depth	0.5m
Tow speed	4 kts
Cable tow length	NA; pole mount

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 SLC 602

<b>Equipment type</b>	
Frequency	
Source level (dB re 1 uPa at 1 m [rms and peak])	
Number of beams	
Across and along track beamwidth	
Pulse rate/length	
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Source depth	
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<b>Equipment type</b>	
Frequency	
Source level (dB re 1 uPa at 1 m [rms and peak])	
Number of beams	
Across and along track beamwidth	
Pulse rate/length	
Rise time	
Source depth	
Tow speed	
Cable tow length	

**Section 6: Safety Zones.** For surveys operating equipment at a frequency < 200 kHz, a safety zone around the sound source is required. The size of the safety zone is based on the modeled or calculated distance to the 160 dB (rms) threshold, as outlined in Section 2100.07 (a)(5)(D) of the Geophysical Survey Permit Program’s regulations. Please list the equipment-specific safety zones below.

Equipment type	Safety zone
NA	NA

**Section 7: Pinniped Haul-Out Sites, Marine Protected Areas (MPAs), and Other Permits/Authorizations.** Please provide answers to the following:

Are there pinniped haul-out sites within on near the survey area? If yes, please provide the location of and distance to the haul-out site(s).

No

Are there MPAs within or near the survey area? If yes, please provide the location of and distance to the MPA(s).

The nearest MPA is the Abalone Cove SMCA, which is approximately 2 km west of the survey area

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SLC 602

Were other permits or authorizations obtained from Federal or State agencies (e.g., from the California Department of Fish and Wildlife for work in or near MPAs)? If yes, please provide the type of permit and issuing agency.

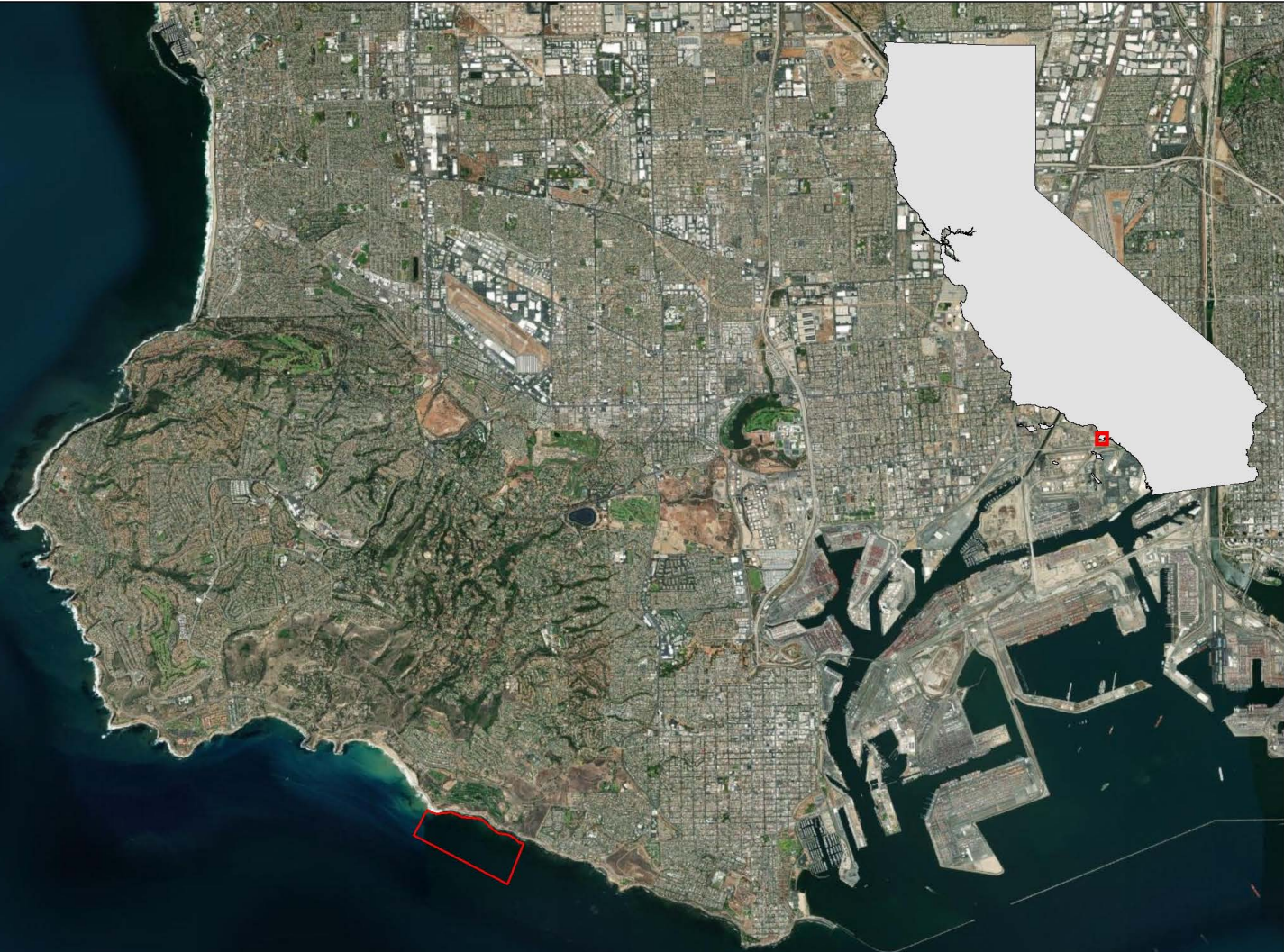
No

**Section 8: Contact Information.** If you foresee potential interference with commercial fishing or other activities, please contact the person(s) listed below:

**Commission Representative**

Email: [slc.ogpp@slc.ca.gov](mailto:slc.ogpp@slc.ca.gov)  
Phone: (916) 574-1938

**Bureau of Ocean Energy Management Representative (If Applicable)**



0 0.75 1.5 3 4.5 6 Kilometers



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