

Permittee's Contact Information:

eTrac Inc.
637 Lindaro Street, Suite 100
San Rafael, CA 94901

Permit #: 9235

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): 9/18/2024 - 11/30/2024

Number of survey days (approximate): 5 (MBES 2 days, Oculus 3 days)

Survey location: Long Beach, CA

Hours of operation: 08:00 and 18:00

Survey purpose/objective:

Marine infrastructure inspection survey.

Section 4: Vessel Details.

Vessel name: Taku

Vessel official number: CF 3078 UK

Vessel captain's name: Anthony Salas, Chris Fernandes

Radio channel(s) to be monitored by vessel: 16

Section 5: Survey Equipment Characteristics.

| | |
|--|------------------------------|
| Equipment type | Multibeam Sonar R2Sonic 2024 |
| Frequency | 400 khz |
| Source level (dB re 1 uPa at 1 m [rms and peak]) | Peak 209dB |
| Number of beams | 256 |
| Across and along track beamwidth | 1° x 1° |
| Pulse rate/length | 50hz, Length 120 sec |
| Rise time | 0.05ms |
| Source depth | Vessel Mounted |
| Tow speed | 4kt |
| Cable tow length | NA |

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| | |
|--|------------------|
| Equipment type | Oculus Sonar |
| Frequency | 2100 khz |
| Source level (dB re 1 uPa at 1 m [rms and peak]) | 190db |
| Number of beams | 512 |
| Across and along track beamwidth | 0.4 |
| Pulse rate/length | 40hz |
| Rise time | 0.05ms |
| Source depth | 0-50 ROV Mounted |
| Tow speed | 0.5knt |
| Cable tow length | 50 ft |

| | |
|--|--|
| Equipment type | |
| 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 | |

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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 |
|----------------|-------------|
| | |
| | |
| | |

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 or 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).

Yes.

Bolsa Chica Basin SMCA. Approximately 0.15 miles to the east of closest survey boundary.

Bolsa Bay SMCA. Approximately 1.68 miles to the north of the entrance to Bolsa Chica Basin SMCA.

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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

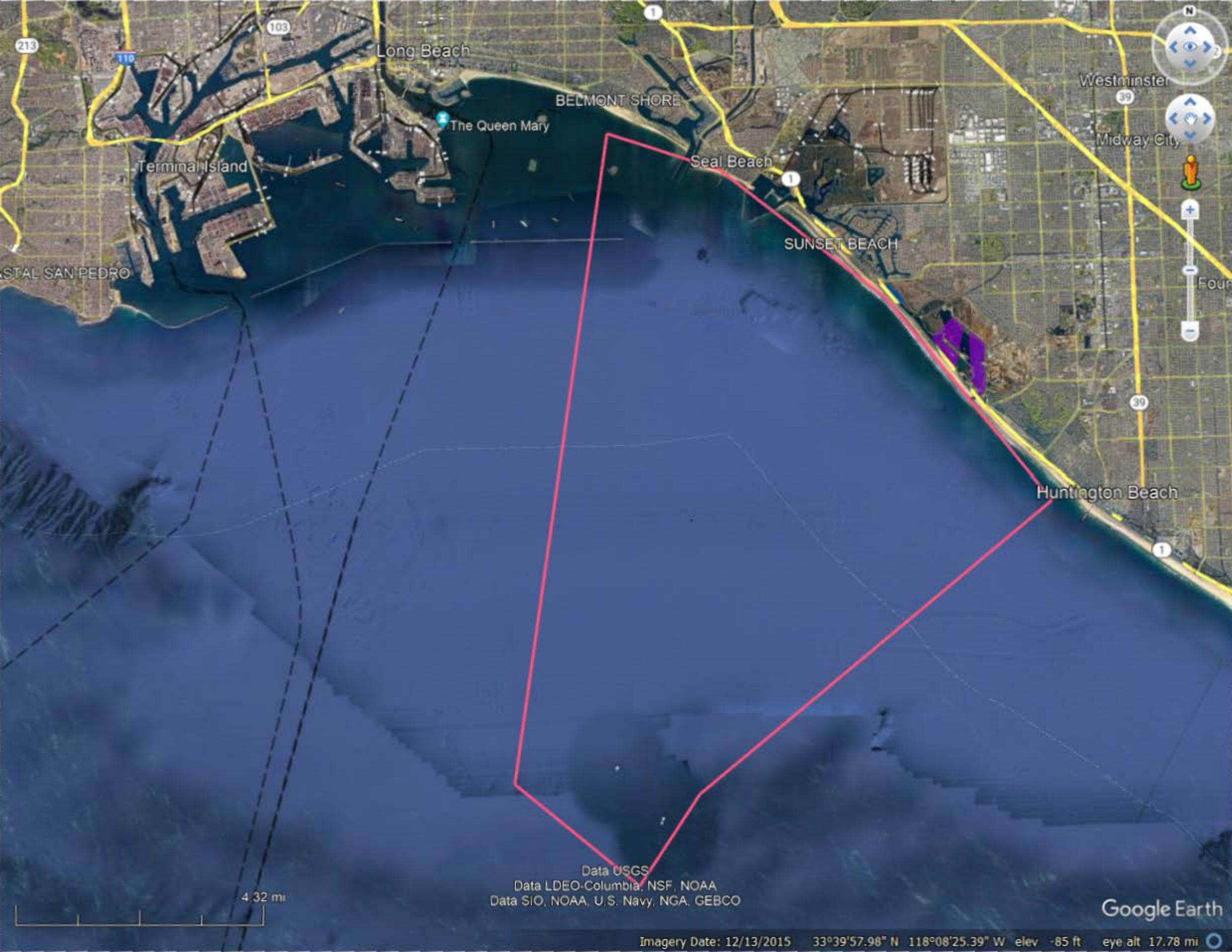
Section 8: Contact Information. If you foresee potential interference with commercial fishing or other activities, please contact the person(s) listed below:

Commission Representative

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

Bureau of Ocean Energy Management Representative (If Applicable)

NA



4.32 mi

Data USGS
Data LDEO-Columbia, NSF, NOAA
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google Earth

Imagery Date: 12/13/2015 33°39'57.98" N 118°08'25.39" W elev -85 ft eye alt 17.78 mi