

INFORMATION ON LA SEISMIC PROJECT



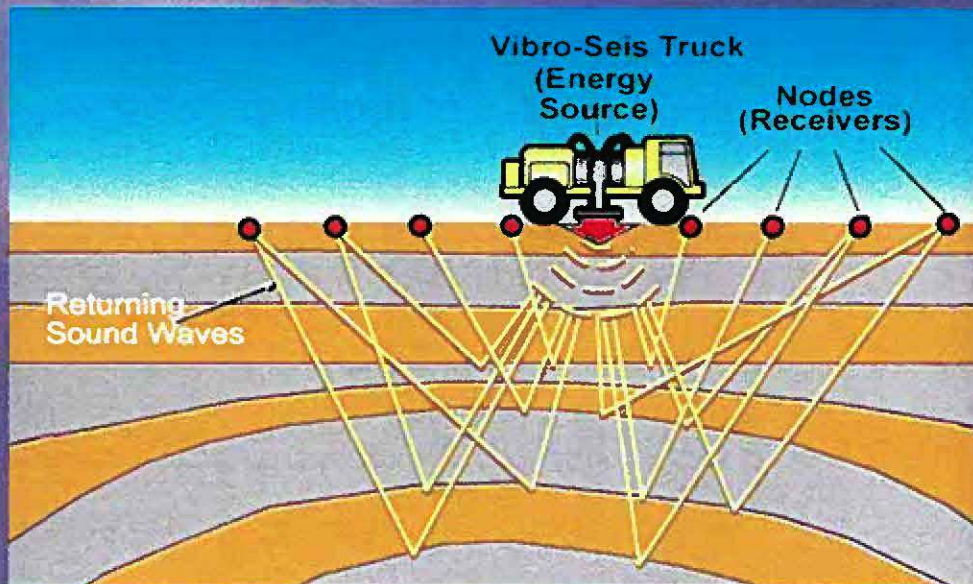
Seismic Survey 2017

Project Applicant—Who We Are

- ▣ LA Seismic LLC—private geophysical consulting company based in Long Beach, CA.
- ▣ Urban seismic projects have been performed using this modern technology, since 2009 in over 20 local cities and has the support of USGS & CalTech.
- ▣ LA Seismic has received letters of recommendation from Dr. Rob Clayton of CalTech, the Water Replenishment District of Southern California & other agencies

Project Description—What We Are Doing

- LA Seismic is proposing to perform geophysical testing to map the Earth's subsurface for seismic research
- Data created by this project will allow for scientific studies on the behavior of geological strata in the area; this data plays an important role in creating a clear picture of the subsurface
- The testing is completed by using state-of-the-art trucks and sensors (as depicted here)



Truck Comparison



Typical City Refuse Truck

Length: 30-37 Ft

Weight: 60 - 70,000 lbs

Noise Level: ~100 Db*

VibroSeis Truck

Length: 21 Ft

Weight: 25,000 lbs

Noise Level: ~56 dB @ 25ft **

* <https://www.usbr.gov/uc/envdocs/ea/navajo/appdx-E.pdf>

** Includes ambient noise

Project Timeline

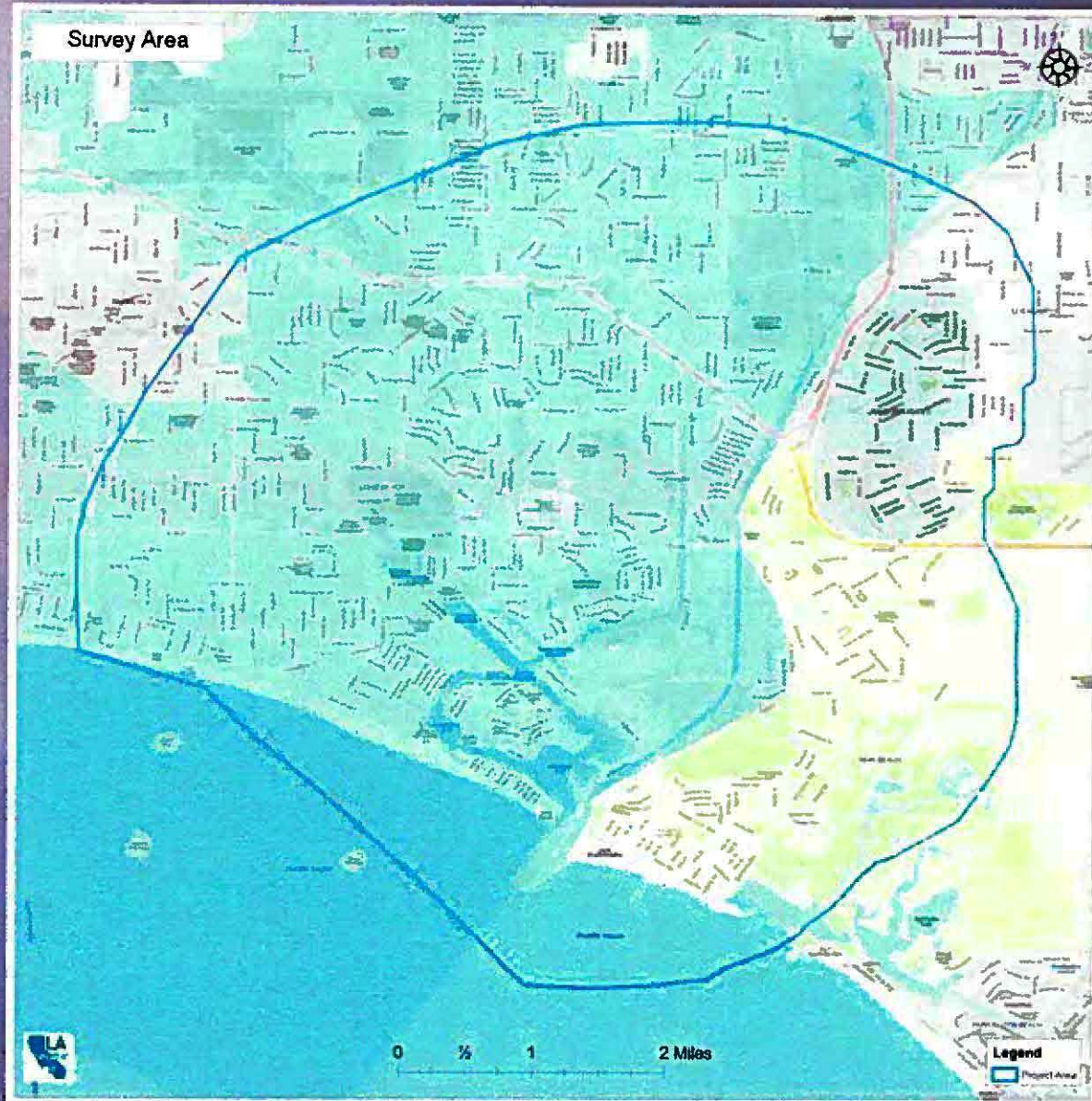
In Rossmoor/Los Alamitos

- ▣ Approximately Ten days (non-consecutive) in Rossmoor/Los Alamitos.
 - Approx. four days to survey and prepare node locations.
 - Three days to deploy nodes. Nodes will remain in-place for duration of project, approximately 30 days.
 - Two days to perform survey truck work.
 - One week to pick up nodes and restore landscape.

- ▣ Times are flexible—LA Seismic will work with local officials to select times that are the least impactful to residents.

- ▣ Work to commence within the next 2 months.

Overall Project Area—Where We'll Be



Project Purposes and Goals— Why We Perform This Work

The seismic survey is extremely meaningful to the scientific community and will help determine:

- The impact of possible earthquakes, near surface ruptures, and liquefaction
 - **LA Seismic will provide cities and governmental agencies with a liquefaction study at no cost**
- The magnitude of earthquakes from faults in the area of study
- Disaster preparedness / emergency response plans

Project Purposes and Goals— Additional Benefits

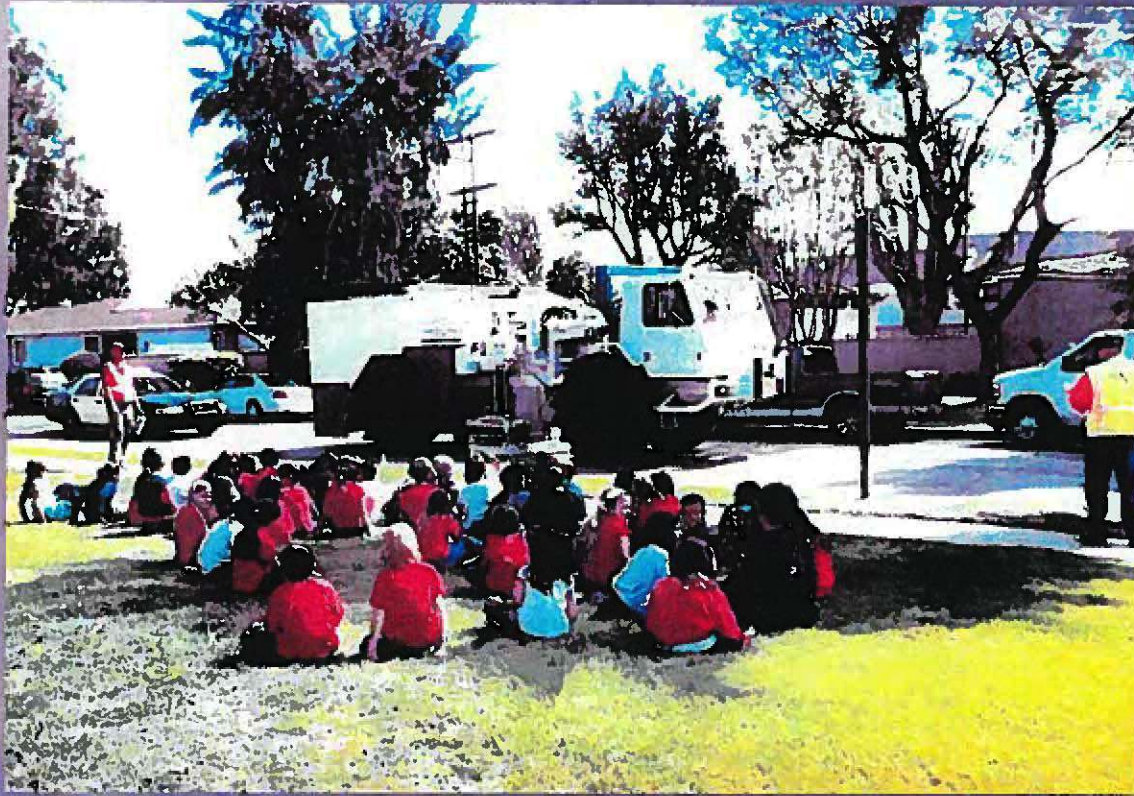
- ▣ Provide much needed data to the Seal Beach Naval Base and surrounding cities.
- ▣ Study micro-seismicity on the Newport-Inglewood fault to study its behavior on how deformation is taking place on a small scale and how it changes with time
- ▣ Aid the Water Replenishment District in refining models for groundwater basins to improve fresh water storage and distribution for Southern California

Community Outreach

LA Seismic has been, and will continue to be, proactive in responding to any questions from the public; our outreach includes the following:

- Maintain detailed call log and provide education to local government agencies
- Send out brochures detailing the Project and its goals to all residences and businesses within 300 feet of the source route
- On the day of the source activity a shepherd crew will notify the residents ahead of the trucks' arrival.

Thank you!!!



Vibe truck demonstration at local elementary school

Please contact Tracey Farmer (562) 208-2922
with any questions