

## DOCKETED

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|-------------------------|----------------------|
| <b>Docket Number:</b>   | 15-AFC-01            |
| <b>Project Title:</b>   | Puente Power Project |
| <b>TN #:</b>            | 212635-4             |
| <b>Document Title:</b>  | Sears CV             |
| <b>Description:</b>     | N/A                  |
| <b>Filer:</b>           | Cathy Hickman        |
| <b>Organization:</b>    | Sierra Club          |
| <b>Submitter Role:</b>  | Intervenor           |
| <b>Submission Date:</b> | 8/4/2016 3:56:19 PM  |
| <b>Docketed Date:</b>   | 8/4/2016             |

# ATTACHMENT B

## Lindsey Sears

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## EDUCATION

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*California State University, Northridge*

**M.A. in Geography, with distinction**

**2012**

Emphasis in GIS

Thesis: "Diesel Trucks: Health Risk and Environmental Equity"

- I used USEPA's AERMOD model to determine concentrations of diesel particulate matter (DPM) around several Southern California freeways, focusing on pollution from port-related diesel truck traffic. I also performed population analyses, examining inequities related to race and income groups exposed to DPM.

*California State University, Northridge*

**B.M. in Oboe Performance, cum laude**

**2007**

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## SOFTWARE SKILLS

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- Microsoft Office
- Adobe Creative Suite
- AERMOD
- ArcGIS
- Golden Software Surfer
- Google Earth Pro
- ERDAS Imagine
- SPSS

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## EXPERIENCE

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### **Consultant**

**2009 - Present**

- ❖ Providing GIS analyses including creating, gathering, integrating, and interpreting spatial data
- ❖ Air Quality modeling using dispersion models such as USEPA's AERMOD
- ❖ Designing maps and graphics

### Publications:

- ❖ Fox, P., Hutton, P. H., Howes, D. J., Draper, A. J., and Sears, L.: *Reconstructing the natural hydrology of the San Francisco Bay-Delta watershed*, Hydrol. Earth Syst. Sci., 19, 4257-4274, doi:10.5194/hess-19-4257-2015, 2015.

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## Past projects:

- Prepared modeling files and modeled unpaved road sources at a Pacific Northwest coal terminal using AERMOD
- Modeled and mapped pesticide drift adjacent to schools and neighborhoods in Oxnard, CA
- Prepared detailed source locations for paved and unpaved roads at a facility in Alabama for analysis in AERMOD
- Prepared CONTAM project files for indoor air quality modeling analyses
- Mapped soil concentrations of hexavalent chromium using high-resolution orthoimagery for a site in New Jersey
- Calculated health risk for a proposed fueling station in Sacramento, CA
- Mapped hexavalent chromium in Newport Beach using high-resolution orthoimagery
- Modeled and mapped actual SO<sub>2</sub> concentrations around two power plants (both combined and separately) in Ohio
- Modeled and mapped SO<sub>2</sub> concentrations around Hunter Station Power Plant (Castle Dale, UT)
- Modeled and mapped SO<sub>2</sub> concentrations around Seward Power Station (Seward, PA)
- Georeferenced, digitized, and analyzed historic California vegetation maps
- Modeled and mapped SO<sub>2</sub> concentrations around OG&E Muskogee Power Plant (Muskogee, OK)
- Modeled and mapped SO<sub>2</sub> concentrations around OG&E Sooner Power Plant (Red Rock, OK)
- Mapped Thorium and Uranium soil deposition around Coldwater Creek in Missouri
- Prepared maps and population analysis for the AEP Rockport Facility in Indiana
- Mapped SO<sub>2</sub> concentrations for the Potomac River Generating Station (Alexandria, VA)
- Prepared MET data to be used in AERMOD for Baton Rouge, LA
- Modeled and mapped PM<sub>10</sub> concentrations in Waimea, Kauai County, HI
- Modeled and mapped SO<sub>2</sub> and NO<sub>2</sub> concentrations around Colstrip Power Plant
- Analyzed land cover/population and prepared MET data to be used in AERMOD for Colorado Springs, CO

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- Prepared maps showing SO<sub>2</sub> concentrations around the E.D. Edwards and Wood River power plants in IL
- Analyzed land cover/population density and mapped SO<sub>2</sub> concentrations around several Michigan power plants including MSU, J.R. Whiting, and St. Clair/Belle River
- Prepared maps of natural gas pipelines in North Dakota and Berkeley, CA
- Mapped SO<sub>2</sub> concentrations around the Homer City, PA power plant
- Mapped SO<sub>2</sub> and PM<sub>2.5</sub> concentrations around the proposed Taylorville Energy Center facility in IL
- Mapped SO<sub>2</sub> concentrations around Ashtabula, Avon Lake, and Lakeshore power plants in OH
- Mapped SO<sub>2</sub> concentrations around six Illinois Midwest Generation coal plants including detailed maps of Crawford and Fisk
- Mapped pesticide exposure in Oahu, HI
- Geocoded addresses and created Google Earth layers representing residents in Kauai County, HI