

Lydia Chandra

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SUMMARY

Early career environmental engineer with three years of progressive experience reviewing air quality permit applications for industrial construction and modification projects. Work covers process descriptions, **emissions calculations**, **emission units**, **release points**, **pollution controls**, modeling inputs, technical reports, and electronic records. Supports ambient air impact analyses and NAAQS evaluations by preparing source data, checking model inputs, reviewing outputs, and coordinating questions with lead modelers. Researches EPA guidance, state rules, environmental requirements, and evolving control technologies, then translates findings into technical memoranda, permit summaries, proposed conditions, and management materials. Coordinates with applicants, consultants, regulatory specialists, and cross functional teams on sensitive technical questions and competing interpretations. Clear technical writing, organized project execution, and mentoring experience support accurate, defensible reviews.

EXPERIENCE

Environmental Engineer II, Air Quality Permitting

January 2025 - Present

Front Range Air Permitting Group

Boulder, CO

Lead mid level review of New Source Review applications for industrial construction and modification projects. Support ambient air impact analyses, technical documentation, regulatory research, stakeholder coordination, electronic records, and staff mentoring across concurrent reviews.

- Reviewed **New Source Review** applications, **emissions calculations**, controls, and engineering documentation for industrial projects.
- Prepared source parameters and checked modeling inputs supporting lead modelers evaluating **NAAQS** compliance.
- Drafted **technical analyses**, permit conditions, application summaries, and management materials for regulatory review.
- Researched **emission control technologies** and regulatory guidance, documenting technical bases for permit approaches.
- Coordinated applicant questions, **technical comments**, schedules, and electronic records across concurrent application reviews.
- Mentored newer staff on document review, emissions calculations, record organization, and technical writing.

Environmental Engineer I, Stationary Source Review

October 2023 - December 2024

Rocky Mountain Environmental Review Collaborative

Denver, CO

Supported stationary source permit reviews through engineering analysis, emissions and equipment checks, dispersion modeling preparation, regulatory research, applicant coordination, and defensible electronic documentation for senior review.

- Evaluated permit components, equipment information, **emission units**, **release points**, and proposed controls against requirements.
- Prepared engineering memoranda and data summaries documenting findings, open questions, and recommended senior review.
- Compiled source data and checked model ready parameters against **plans**, **specifications**, and emissions information.
- Researched EPA guidance and state **rules**, supporting consistent answers to technical permitting questions.
- Joined applicant and consultant discussions, clarified submittals, documented responses, and kept reviews progressing.
- Maintained electronic records for applications, calculations, correspondence, and review notes supporting transparent documentation.

Air Quality Engineering Research Assistant, Emissions Studies

September 2022 - September 2023

University Research Lab

Fort Collins, CO

Supported supervised research on industrial emission sources and controls through emissions inventories, source characterization, dispersion modeling exercises, technical literature review, engineering calculations, and clear research documentation.

- Supported research on industrial emission sources and controls, building knowledge of regulatory concepts.
- Quality checked dispersion modeling datasets against source parameters and documented research assumptions.
- Reviewed literature on particulate and gaseous controls, summarizing applicability for engineering studies.
- Applied engineering calculations to emissions scenarios, documenting units, assumptions, equations, and results.
- Created technical figures and presentations explaining air quality methods and findings to research audiences.
- Maintained organized research records and contributed to data quality and modeling interpretation reviews.

PROJECTS

Industrial Source Modeling Review 📅 2024

Prepared a supervised review framework for industrial source parameters, emissions data, release points, and dispersion modeling inputs, supporting consistent technical checks.

Emission Control Technology Study 📅 2023

Compared particulate and gaseous emission control technologies through literature research, engineering calculations, and concise summaries of performance and applicability.

LEADERSHIP & AWARDS

- Environmental Engineering Senior Design Recognition, Colorado State University, 2023
- Outstanding Technical Research Presentation, University Research Lab, 2023

EDUCATION

Bachelor of Science in Environmental Engineering
Colorado State University GPA: 3.8
Coursework: Air Quality Engineering, Environmental Regulations, Fluid Mechanics, Engineering Calculations

2023
Fort Collins, CO

CERTIFICATIONS

- Engineer in Training, Colorado 📅 2023
- EPA Air Pollution Training Institute, Air Quality Permitting Fundamentals 📅 2024

TECHNICAL SKILLS

- **Air Quality Programs:** New Source Review, NAAQS, WAAQS
- **Regulatory Authorities:** EPA requirements, state rules, NPS requirements
- **Modeling Methods:** Air dispersion modeling, ambient impact analysis, source modeling
- **Emissions Analysis:** Emissions calculations, emissions inventories, source characterization
- **Industrial Processes:** Emission units, process descriptions, release points
- **Pollution Controls:** Particulate controls, gaseous controls, control technology research
- **Permit Documents:** Technical reports, permit summaries, proposed permit conditions
- **Engineering Review:** Plans, specifications, calculations, technical merit
- **Technical Research:** Regulatory research, scientific studies, agency guidance
- **Records Management:** Electronic application records, project documentation, correspondence
- **Stakeholder Tools:** Applicant coordination, consultant coordination, public meetings
- **Communication Formats:** Technical memoranda, data summaries, management materials

SKILLS

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|--------------------------|-----------------------------|-----------------------------|------------------------|
| • New Source Review | • Air dispersion modeling | • Release points | • Permit conditions |
| • Air quality permitting | • Emissions calculations | • Technical document review | • Stakeholder response |
| • Ambient air analysis | • Industrial emission units | • Environmental regulations | • Electronic records |
| • NAAQS compliance | • Pollution controls | • EPA requirements | |

PROFESSIONAL AFFILIATIONS

- Air Quality Professionals Emerging Engineers Group, Member, 2024 - Present
- Air and Waste Management Association, Student Member, 2023 - Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST