

Eli Carey

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SUMMARY

Wastewater treatment operator with five years of progressive plant operations experience across biological treatment, solids handling, disinfection, sampling, process control, and equipment care. Holds a **Colorado Wastewater Operator Grade II** license and applies **permit requirements**, EPA practices, laboratory methods, and operating data to maintain stable, compliant treatment processes. Operates pumps, blowers, centrifuges, generators, valves, mixers, conveyors, filters, belt presses, **chemical feed systems**, odor control equipment, and computerized **process control systems**. Diagnoses basic process and mechanical problems, evaluates meters and gauges, documents shift conditions, and coordinates corrective action with maintenance teams. Works safely around chemicals, electrical equipment, high pressure, confined spaces, slippery surfaces, and outdoor weather using respirators, gas detectors, and required PPE. Supports dependable operations through clear communication, emergency response, accurate records, and practical troubleshooting.

EXPERIENCE

Wastewater Treatment Operator II

May 2024 - Present

Front Range Water Reclamation District

Fort Collins, CO

Operates biological treatment, disinfection, solids handling, odor control, and chemical feed systems across multiple unit processes. Leads routine monitoring, sampling, equipment checks, process troubleshooting, emergency response, and shift documentation while coordinating maintenance activity and protecting permit compliance.

- Operates **biological treatment** and disinfection systems, keeping **process conditions** within approved operating ranges.
- Collects wastewater samples and completes process tests, using trends to guide authorized adjustments.
- Inspects pumps, blowers, **centrifuges**, valves, mixers, generators, conveyors, filters, and **belt presses**.
- Diagnoses process and mechanical issues, coordinating maintenance support when operator authority is exceeded.
- Maintains shift logs, readings, **sample records**, and notes that support permit compliance and handoffs.
- Uses respirators, **gas detectors**, confined space equipment, and PPE during emergency plant response.

Wastewater Treatment Operator I

October 2022 - April 2024

Poudre Valley Utilities

Loveland, CO

Supported daily **wastewater treatment** operations under general supervision, monitoring basins, pumps, chemical systems, and disinfection equipment. Combined process control software, sampling, inspections, cleaning, safety procedures, and clear shift communication to maintain reliable plant performance.

- Monitored treatment basins, **pumps**, chemical systems, and **disinfection** equipment, recording readings for shift review.
- Collected influent, process, and effluent samples, preparing routine tests for operating decisions.
- Cleaned tanks, equipment, filter areas, and workspaces during scheduled inspection and maintenance rounds.
- Used **process control** software to review alarms, trends, set points, and equipment status.
- Applied **EPA requirements**, site safety procedures, lockout awareness, and chemical handling practices daily.
- Supported extended hour callout coverage, communicating plant conditions and unfinished work during shift change.

Operator Trainee

September 2021 - September 2022

Municipal Operations Training Facility

Greeley, CO

Completed supervised rotations through preliminary treatment, biological processes, clarification, disinfection, and solids handling. Practiced plant calculations, sampling, equipment operation, confined space procedures, emergency response, and fault diagnosis within instructor approved limits.

- Completed supervised rotations through preliminary treatment, biological processes, clarification, **disinfection**, and **solids handling**.
- Practiced flow, dosage, and process calculations using realistic wastewater operating scenarios and **basic math**.
- Learned safe operation of pumps, **valves**, mixers, blowers, and **measuring devices** during controlled assignments.
- Collected practice samples and recorded meter readings for instructor review and process discussions.
- Completed confined space, respirator, gas detection, chemical safety, and **emergency response** exercises.
- Diagnosed simulated process faults and documented corrective steps within established operator procedures.

PROJECTS

Process Control and Sampling Improvement 📅 2025

Stable treatment depends on reliable information. Reviewed operating trends, sample records, alarms, and shift notes to support consistent decisions across biological treatment, disinfection, and solids handling processes.

Safe Confined Space Response Program 📅 2026

Safe service protects people before it protects equipment. Practiced respirator use, gas detection, confined space entry, chemical safety, and emergency response for challenging plant conditions.

LEADERSHIP & AWARDS

- Colorado Wastewater Operator Grade II license earned in 2025 through continued technical growth and dependable plant practice.
- Selected for expanded operator responsibilities after demonstrating sound judgment across multiple unit processes and emergency callout coverage.
- Recognized by operations peers for clear shift handoffs, accurate records, and practical troubleshooting during abnormal conditions.

EDUCATION

Associate of Applied Science in Water Quality Management

Aims Community College GPA: 3.5

2021
Greeley, CO

Coursework: Wastewater Treatment, Water Quality, Process Control, Environmental Compliance

CERTIFICATIONS

- Colorado Wastewater Operator Grade II 📅 2025
- Confined Space Entry and Gas Detection Training 📅 2026
- Respiratory Protection Training 📅 2026
- Valid Driver's License 📅 2026

TECHNICAL SKILLS

- **Treatment Processes:** Biological treatment, Clarification, Disinfection
- **Solids Handling:** Centrifuges, Belt presses, Sludge filters
- **Pumping Equipment:** Pumps, Blowers, Generators
- **Flow Control:** Valves, Gates, Mixers
- **Chemical Systems:** Chemical feed, Odor control, Caustic chemicals
- **Process Monitoring:** Meters, Gauges, Alarms
- **Process Control Software:** Computerized controls, Trends, Set points
- **Water Testing:** Wastewater samples, Routine tests, Laboratory methods
- **Safety Equipment:** Respirators, Gas detectors, PPE
- **Confined Space Safety:** Entry equipment, Hazard assessment, Rescue procedures
- **Compliance Practices:** EPA requirements, Permit compliance, Quality records
- **Material Handling:** Conveyors, Dryers, Heavy machinery

SKILLS

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|------------------------|-----------------------|-----------------------|-------------------------|
| • Wastewater treatment | • Basic math | • PPE practices | • Mechanical inspection |
| • Process control | • Equipment operation | • Confined spaces | • Safety procedures |
| • Water sampling | • Troubleshooting | • Shift communication | • Permit compliance |
| • EPA compliance | • Emergency response | • Quality testing | |

PROFESSIONAL AFFILIATIONS

- Colorado wastewater operations community, connected through licensing, plant practice, and shared regulatory standards.
- Municipal water operations peers, building trusted working relationships through clear handoffs and coordinated maintenance response.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST