

Dae Cain

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SUMMARY

Journey level wastewater plant operator with eight years of hands on experience across wastewater treatment, sewer conveyance, pumping stations, and **potable water distribution** systems. Holds a **California Water Resources Control Board Grade II Wastewater Treatment Plant Operator** certificate and applies practical judgment during routine operations, equipment outages, abnormal conditions, and safety concerns. Operates activated sludge, trickling filters, aerobic digesters, screening devices, sludge drying beds, effluent percolation beds, spray irrigation systems, flow meters, pumps, valves, electric motors, and **motor control centers**. Uses operating rounds, process observations, equipment checks, and clear documentation to protect treatment continuity and water quality. Works closely with maintenance personnel during isolation, troubleshooting, corrective work, and return to service. Brings steady field experience for reliable rural utility operations and responsible public service.

EXPERIENCE

Wastewater Plant Operator II

July 2023 - Present

Sierra Valley Water Reclamation

Fresno, California

Operate a multi process wastewater facility and related pumping, conveyance, solids handling, effluent, and spray irrigation assets. Support stable treatment through field rounds, process evaluation, equipment troubleshooting, safe isolation, maintenance coordination, and accurate shift documentation.

- Operated **activated sludge**, screening, **aerobic digestion**, flow measurement, and sludge drying systems during daily treatment cycles.
- Reviewed flow data, equipment status, and field observations, identifying developing problems before treatment continuity suffered.
- Troubleshot pumps, valves, **electric motors**, and **motor control centers** with maintenance staff during corrective work.
- Adjusted aeration and solids handling activities from process conditions, supporting dependable biological treatment and manageable sludge characteristics.
- Inspected **pumping stations** and **sewer conveyance** assets, documenting irregular conditions for timely response and risk reduction.
- Monitored effluent percolation and spray irrigation operations, confirming equipment readiness and accurate shift records.

Wastewater Plant Operator

March 2021 - June 2023

Redwood Plains Sanitation District

Visalia, California

Managed routine treatment and collection system operations across trickling filter and activated sludge processes. Kept dispersed pumping stations, screening equipment, solids handling systems, and operating records ready for dependable service through structured inspections and careful handoffs.

- Managed trickling filter and **activated sludge** processes, interpreting flow and equipment conditions for consistent plant performance.
- Inspected **screening devices**, pumps, **valves**, motors, and instrumentation, providing clear observations for maintenance planning.
- Conducted pumping station rounds across dispersed collection assets, confirming controls, wet wells, and equipment availability.
- Supported aerobic digester and sludge drying bed operations, sequencing solids handling around loading and available capacity.
- Recorded operating data and shift events, giving incoming operators clear context for alarms and unresolved conditions.
- Applied safe isolation procedures during equipment outages, preserving treatment capability while individual assets remained unavailable.

Utility Plant Operator

August 2018 - February 2021

Central Foothills Utility Services

Bakersfield, California

Operated wastewater and potable water assets under established procedures while building broad field capability across treatment equipment, pumping systems, distribution checks, maintenance preparation, and operating records. Supported outlying service areas through dependable rounds and practical equipment observations.

- Operated wastewater and potable water assets under established procedures across treatment, pumping, and distribution operations.
- Checked **pumps**, valves, **flow meters**, motors, and control equipment, reporting unusual heat, vibration, noise, or flow.
- Monitored **screening** and biological treatment stages, documenting observations and completing authorized operator adjustments.
- Inspected distribution systems and completed routine checks supporting dependable potable water delivery across outlying service areas.
- Prepared equipment for maintenance through safe shutdown and isolation, then verified normal operation after return to service.
- Maintained operating records, inspection notes, and equipment observations that improved continuity between shifts.

Operator in Training, Wastewater Operator

June 2018 - July 2018

North River Environmental Operations

Modesto, California

Completed supervised operating rounds across preliminary treatment, biological treatment, solids handling, effluent systems, collection assets, and pumping stations. Built practical field knowledge through structured observation, safe basic inspections, accurate logs, and escalation of **abnormal conditions**.

- Completed supervised rounds across preliminary treatment, biological treatment, solids handling, and effluent systems.

- Read **flow meters** and equipment indicators, comparing observations with expected ranges for **journey level** review.
- Inspected pumps, valves, screens, and motors under established procedures, documenting findings for maintenance records.
- Supported sludge drying bed preparation and housekeeping, keeping process areas accessible for operating work.
- Learned collection system and pumping station inspections through field rounds focused on **unsafe conditions**.
- Maintained training and operating logs while progressing from supervised tasks toward routine assignments.

PROJECTS

Regional Treatment Reliability Initiative 📅 2024

Coordinated field observations across treatment, pumping, conveyance, and distribution assets, helping maintenance partners prioritize equipment concerns and protect reliable utility service.

Solids Handling Operations Review 📅 2022

Reviewed aerobic digester and sludge drying bed routines with operations peers, improving handoff clarity around loading, capacity, equipment readiness, and follow up.

LEADERSHIP & AWARDS

- Recognized by operations leadership for dependable journey level coverage across treatment and conveyance assignments.
- Selected by peers as a trusted resource during equipment outages, safe isolation, and return to service activities.
- Commended for clear shift records that helped incoming operators act on alarms, adjustments, and unresolved conditions.

EDUCATION

Associate of Science in Water and Wastewater Technology

2018

San Joaquin Valley College GPA: 3.5

Fresno, California

Coursework: Wastewater treatment operations, water distribution systems, process control, environmental compliance

CERTIFICATIONS

- California Water Resources Control Board Grade II Wastewater Treatment Plant Operator 📅 2021
- Wastewater Treatment Plant Operator, Grade II 📅 2021

TECHNICAL SKILLS

- **Wastewater Processes:** Activated sludge, trickling filters, aerobic digesters
- **Solids Handling:** Sludge drying beds, solids handling, sludge process monitoring
- **Screening Systems:** Screening devices, preliminary treatment, screenings inspection
- **Hydraulic Measurement:** Flow meters, flow measurement, operating flow records
- **Rotating Equipment:** Pumps, electric motors, pumping station equipment
- **Valve Systems:** Process valves, isolation valves, valve inspections
- **Motor Controls:** Motor control centers, control equipment, equipment status checks
- **Collection Systems:** Sewer conveyance, collection systems, wet wells
- **Water Distribution:** Potable water distribution, distribution inspections, service checks
- **Effluent Management:** Effluent percolation beds, spray irrigation, effluent monitoring
- **Operations Practices:** Operating rounds, preventive maintenance, safe equipment isolation
- **Records And Reporting:** Plant logs, shift records, inspection documentation

SKILLS

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|-----------------------------|---------------------|--------------------------|---------------------------|
| • Wastewater Operations | • Pumping Stations | • Sludge Drying Beds | • Operating Documentation |
| • Water Distribution | • Activated Sludge | • Flow Measurement | • Sewer Conveyance |
| • Process Monitoring | • Trickling Filters | • Safe Isolation | • Effluent Management |
| • Equipment Troubleshooting | • Aerobic Digesters | • Preventive Maintenance | |

PROFESSIONAL AFFILIATIONS

- Wastewater treatment operations community, practical exchange of plant, pumping, and process knowledge.
- Regional utility operations network, peer collaboration across rural treatment and potable water systems.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST