

**NEW Water
Job Description**



SECTION 1		DEMOGRAPHIC INFORMATION	
Job Title	WWTP Operator-in-Training	Division	Operations
Department	Treatment	Reports To (Job Title)	Treatment Manager
Full-Time / Part-Time	Full Time	Part-Time (Hrs per Wk)	
Pay Grade	8	Exempt/Non-exempt	Non-Exempt
	Hiring Rate Range: \$22.69- \$26.67 Hourly Rate Range: \$22.69- \$32.03	Last Revision Date	July 12, 2016
Approved By (generally same as "Reports To")	Treatment Manager	Human Resources Approval Date	July 31, 2016
Director Approved By (Job Title)	Director of Operations		

SECTION 2	JOB SUMMARY
<p>The primary role of this position is to develop the skills, knowledge, and experience required to operate all NEW Water treatment processes and their associated equipment at both wastewater treatment facilities. An individual in this position will initially be classified as an "Operator-In-Training". As operational knowledge at the Green Bay (GBF) and De Pere (DPF) facilities increase to a satisfactory level, as determined by the Treatment Manager, this person will be utilized as a relief operator on a crew. This position is expected to perform all of the same tasks as a Treatment Operator but at a reduced level of responsibility.</p> <p>Advancement opportunities exist for this person to move into a Treatment Operator position in Pay Grade 9 upon successfully completing all training and upon approval by the Treatment Manager. The Pay Grade 9 hourly rate range is \$25.41-\$35.87.</p>	

SECTION 3		DESCRIPTION OF ESSENTIAL RESPONSIBILITIES & DUTIES
		Frequency: Daily, Weekly, Biweekly, Monthly, Quarterly, Annually, or As Needed
Description of Duties	Frequency	
Key Area: Plant Operation	60% of job	
Responsible for operating all equipment, facilities, and associated processes at both wastewater treatment facilities.	Daily	
Develop the skills needed to ensure all equipment is operating at peak efficiency.	Daily	
Identify improvement opportunities in the processes, facilities, and equipment as part of a continuous improvement culture.	Daily	
Assist Maintenance, Field Services, and Utilities staff in troubleshooting equipment and process issues.	Daily	
Request proper maintenance and servicing of equipment using the Computerized Maintenance Management System (CMMS) in a timely, efficient, and effective manner.	Daily	
Develop the skills necessary to interpret analytical data from which intelligent decisions are made. These decisions affect the safe and proper operation of both of NEW Water's facilities, processes, and equipment. Utilizes analytical data, physical and chemical observations, electrical, mechanical and instrumentation conditions, computer-generated data, and log entries to make these decisions.	Daily	
Must effectively organize work assignments and perform follow-up inspections to ensure that both facilities are operating efficiently.	Daily	
Effectively communicate with internal and external customers while coordinating work activities to determine how changes in the operation will affect the process.	Daily	
Key Area: Safety	15% of job	
Ensures that all NEW Water Safety and Security policies are followed.	Daily	
Participates in safety and security training as directed by the Treatment Manager.	Monthly	
Reports unsafe conditions within the plants and makes recommendations to correct the issue.	As Needed	
Communicates with the Treatment crews and other NEW Water staff regarding safety hazards.	As Needed	
Takes appropriate action when a safety hazard is identified (e.g., notifies direct supervision and crew members	As Needed	

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after properly identifying and mitigating the hazard).	
Key Area: Research and Development	15% of job
Assists in development, preparation, and updating of all division documents including: plant logs, analytical data, Operation and Maintenance (O&M) manuals, and Standard Operating Procedures (SOPs).	Daily
Key Area: Coordinating, Scheduling, and Requisitioning	10% of job
Responsible for the coordination, scheduling, and receiving of hauled-in-wastes at the GBF.	Daily
Responsible for the coordination, scheduling, requisitioning, receiving, and unloading of chemicals at the GBF and DPFF.	As Needed
Identifies, orders, and receives supplies (e.g., small tools, chemicals, materials, and equipment) needed for normal plant operation and for special projects.	Daily
Other:	
Perform other job related duties as assigned.	As Needed
Promote and enhance environmental, health, and safety compliance within the work environment and actively engage in improvement efforts.	Daily
Follow organizational policies and procedures.	Daily

SECTION 4 EDUCATION REQUIRED	
Minimum Level of Education	Field(s) of Study
Associate's Degree	Wastewater Treatment, Environmental Sciences, or related field of study.
Additional Information Regarding the Required Education:	Completion of the Wisconsin Wastewater Operators State Apprenticeship Program may substitute for the associate's degree. Demonstrated aptitude in the areas of mechanical operation, mathematics, biology, and chemistry, or an equivalent combination of training and relevant experience.

SECTION 5 EXPERIENCE REQUIRED	
Years of Experience	0 – 6 months
Other Specific Experience Required or Preferred	Internship in a related field preferred.

SECTION 6 CERTIFICATION / LICENSURE / TRAINING TO PERFORM JOB		
Required Certification/Licensure	Required Upon Hire?	If no, timeframe to obtain?
Current and valid motor vehicle operator's license.	Yes	
Incinerator Operator Certification		Two Years
Be certified in confined space entry procedures, CPR, and First Aid,		Two Years
Training in forklift operation, respiratory protection, lockout/tagout, and fire extinguisher operation.		Two Years
Preferred Certification/Licensure		
All applicable subclasses for the advanced Grade IV level Wastewater Treatment Plant Operator's license as issued by (or acceptable to) the Wisconsin Department of Natural Resources (Including Continued Education Credits required to maintain a valid Wisconsin Wastewater Operator License.)		
Microbiology/Microscope Training		

SECTION 7 ADDITIONAL KNOWLEDGE, SKILLS, AND ABILITIES

Good knowledge of the principles, practices, and methods used in wastewater treatment facility operations. Knowledge of the methods, practices, tools, and materials used in the operation of pumps, blowers, valves, and related equipment. A growing understanding of preventative maintenance practices applicable to treatment plant equipment. Knowledge in the operation and troubleshooting of mechanical, electrical, and instrumentation equipment used in wastewater treatment plants.

Demonstrated aptitude in the areas of mechanical operation, mathematics, computers, biology, and chemistry.

Good knowledge of laboratory testing procedures and how to use the results in correcting operating conditions related to permit compliance. Good knowledge of sludge processing biology (aerobic and anaerobic) and of the techniques used to correct bacterial upsets to maintain or restore biological process balance. Good knowledge of water and air regulatory programs and their effect on plant operation (EPA Title V, EPA 503, WPDES permit, EPA 40 CFR Part 60 Subpart LLLL, and EPA 40 CFR Part 62 LLL).

Good knowledge in confined space entry procedures (Permit-required Confined Space OSHA 1910.146), lockout/tag out procedures (Lockout/Tagout OSHA 1910.147), and hazard communication practices related to Safety Data Sheets (Hazard Communication OSHA 1910.1200).

Ability to establish and maintain effective working relationships with staff, including both internal and external customers. Ability to communicate effectively both orally and in writing.

Ability to understand complex policies, procedures, and technical problems. Ability to critically analyze process problems and to use sound judgment in arriving at an effective and appropriate solution.

Competence in the use of personal computers for writing reports using word processing programs and the generation of data utilizing spreadsheets and databases for collection and process analysis.

The ability to work independently and safely while maintaining a safe work environment for all staff.

The ability to multi-task in stressful situations (i.e. Emergency response protocols, unplanned power outages, and high flow situations).

SECTION 8 SOFTWARE / TECHNOLOGY UTILIZED

Microsoft Outlook, Word, Excel, Access, SharePoint, Rockwell Systems (SCADA), Maximo (CMMS), Maxcom (SDS for Chemicals), ExecuTime (Time and Attendance), Programmable Logic Controllers (PLC's), Stackvision (Continuous Emissions Monitoring System - CEM), Simplex security system

SECTION 9 EQUIPMENT / MACHINERY UTILIZED

Computers, forklift, motorized carts and hand tools, power tools.

Operation of all plant equipment including: Pumps, screening equipment, samplers, air monitoring sensors and equipment, grit removal systems, clarifiers, scum removal equipment, aeration basins, air compressors, mixing equipment, on-line analyzers and monitors, valves (manual, electric, pneumatic), treated cooling water and service water systems, sand filtration equipment, gravity thickeners, gravity belt thickeners, dry polymer system, belt filter presses, HVAC, multiple hearth incinerators, chemical feed systems, conveyor systems, flow control gates, plant heating boilers, emergency generators, air emissions system, and disinfection equipment.

SECTION 10 JUDGMENTS / DECISION-MAKING: IMPACT

Description of Duties	Check One
Job Centered / Work Unit: Decisions are typically isolated to an individual's job or work unit.	<input checked="" type="checkbox"/>
Department-Wide: Decisions may impact across work units, and involve a significant function of the department. Supervision or management is typically—but not always—a component of the job.	<input type="checkbox"/>

Multiple Departments: Decisions are made on behalf of and impact across multiple departments; or across several sections of a significantly large department.	<input type="checkbox"/>
Entire Organization: Decisions are made on behalf of and affect the entire organization including, but not limited to: employees, customers, vendors, governing body, etc.	<input type="checkbox"/>

SECTION 11 JUDGMENTS / DECISION-MAKING EXAMPLES

Frequency: Daily, Weekly, Biweekly, Monthly, Quarterly, Annually, or As Needed		
Example of Decision / Judgment	Job Title of Who Reviews (If Anyone)	Frequency
Maintain safe and efficient plant operational practices and procedures to ensure regulatory compliance.	Treatment Manager Treatment Leaders, Treatment Operators, Wisconsin DNR, EPA	Daily
Contribute to plant operational changes by interpretation of operational spreadsheets, databases, lab data and microscope analysis.	Treatment Manager Treatment Leaders, Treatment Operators, Wisconsin DNR, EPA	Weekly
Assist in coordination of process changes and equipment rotation.	Treatment Manager Treatment Leaders, Treatment Operators	Daily
Assist in maintaining staffing requirements and balancing workloads.	Treatment Manager Treatment Leaders, Treatment Operators	Daily
Troubleshooting, performing minor maintenance on equipment.	Treatment Manager Treatment Leaders, Treatment Operators, other departments	Daily
Assist in equipment rotations driven by service requests.	Treatment Manager Treatment Leaders, Treatment Operators	Daily
Perform position requirements using proper personal protective equipment.	Treatment Manager Treatment Leaders, Treatment Operators, Safety and Security Coordinator	Daily

SECTION 12..... PROBLEM SOLVING

Example of Problem	Resources Used
Assist in monitoring, evaluating, and adjusting parameters to the following processes: pump station, screenings, primary treatment, biological aeration, effluent filtration, effluent disinfection, gravity belt thickening, gravity thickening, belt filter presses, and incinerators.	SCADA, CEM Systems, samplers, Microsoft Access, Lab Data, Analytical Measurement Devices (e.g. TSS and DO Probes), PLC's, and operational knowledge and experience.
Assist in monitoring and adjusting plant operation at both facilities to accommodate fluctuating loadings and flows.	Flow Meters, Lab Data, SCADA System, external customer communications, interdepartmental coordination
Assist in monitoring and adjusting plant operations during any upsets such as major rain events to prevent any sewer backups within our service area, maintaining adequate treatment of incoming flow and preventing any bypass to the river.	Additional equipment and/or processes, DPF force main transfer, collection system monitoring, call-in list, NOAA weather forecasting.
Assist in monitoring for shock or toxic loads, unplanned power outages, and/or high seasonal loadings	Communication with Pre-Treatment coordinator, sampling, security system, power monitoring devices.
Protection of equipment from freezing during winter months.	Basin Winterization Procedures, Service Water, Process air, ice chippers.
Assist in troubleshooting operational problems and upsets.	SCADA, Lab Data, Grab Sampling, Operational Experience
Assist in troubleshooting equipment failures	CMMS (Maximo), SCADA, Operational Experience
Assist in monitoring and adjusting plant performance during construction/upgrade projects.	SCADA, Lab Data, Grab Sampling, Operational Experience, Project Coordinator updates.

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SECTION 13WORKING RELATIONSHIPS / INTERACTIONS / CONTACTS

Frequency: Daily, Weekly, Biweekly, Monthly, Quarterly, Annually, or As Needed

Title/Description of Contact	Purpose of Contact	Frequency
Treatment Department	Offer team encouragement and direction as a self-directed work group.	Daily
Interdepartmental (all NEW Water Departments)	Plant maintenance, repairs, troubleshooting, equipment rotations, power switches, sample data, monthly plant sampling (MPS), priority pollutant sampling, whole effluent toxicity testing (WET), plant tours, special projects, rules and regulations.	Daily
Solid Waste Disposal Company	Schedule and coordinate filling and pick-up times of ash, grit, and solid waste.	Daily
General public, consultants, business representatives, other wastewater professionals, outside vendors, outside contractors.	Answering outside phone calls during off hours, primary contact for emergencies, plant modifications, public education, lead plant tours.	Daily
Chemical Supply Companies	Order and schedule delivery of chemicals,	As needed
Regulatory Agencies	Reporting of any incinerator upsets chemical/hazardous waste spills.	As needed
GBF and DPF Mill Flows	Monitoring unusual flows, pH or shutdowns.	Daily
Wisconsin Public Service	Power Outages	As Needed
Diggers Hotline	Monitor for Non-Emergency and Emergency locates to dispatch appropriate personnel when needed	Daily

SECTION 14SUPERVISION / MANAGEMENT AUTHORITY

Action	Yes	No	Provides Input
Screen / Interview Applicants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hire / Promote Employees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Provide Written / Verbal Warnings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Suspend Employees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Terminate Employees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prepare Work Schedules	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Project Management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Provide Work Direction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate Performance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Coach Employees	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Train Employees	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approve Overtime	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Approve Time Off	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Develop / Implement Policies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Evaluate and Approve Exceptions to Policies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Classification / Compensation Changes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Employees <u>Directly</u> Supervised	
# Employees	Job Title
Employees <u>Indirectly</u> Supervised	

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# Employees	Job Title
2	Youth Apprentices
3	Summer Interns
4	Limited Term Employees

SECTION 15.....WORK ENVIRONMENT / WORKING CONDITIONS / PHYSICAL REQUIREMENTS

Refer to ErgoFactor Job Analysis for this position for details.
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SECTION 16ADDITIONAL COMMENTS

Assist in accurately making quick and accurate process changes/decisions for unanticipated problems at both facilities.

Must be able to comprehend how a process change in one area of either facility can affect the complete treatment process.

Ability to work 12 hour shifts, including nights, weekends and holidays, show flexibility to rearrange hours to experience unique operational events

Must keep current on all of NEW Water’s emergency and safety procedures, NEW Water policies, new technologies, computer software, state and federal regulations.

Assist in training Interns, Youth Apprentices, Limited Term Employees.

THIS JOB DESCRIPTION IS INTENDED TO IDENTIFY ESSENTIAL DUTIES AND ALSO ILLUSTRATES OTHER TYPES OF DUTIES THAT MAY BE ASSIGNED TO ITS INCUMBENTS. IT SHOULD NOT BE INTERPRETED AS DESCRIBING ALL OF THE DUTIES THAT WILL BE REQUIRED OF EMPLOYEES OR BE USED TO LIMIT THE NATURE AND EXTENT OF ASSIGNMENTS THAT AN INDIVIDUAL IS REQUIRED TO PERFORM.

JOB DESCRIPTIONS ARE SUBJECT TO REVISION AT ANY TIME AT THE DISCRETION OF MANAGEMENT.