

## STATE OF OREGON POSITION DESCRIPTION

## Position Revised Date: 5/1/2025

Agency: Water Resources De Facility: North Mall Office Bui	•	This position is:  Classified Unclassified Executive Service Mgmt Svc – Supervisory Mgmt Svc – Managerial Mgmt Svc - Confidential						
SECTION 1. POSITION INFO	SECTION 1. POSITION INFORMATION							
a. Classification Title: Natura	Resource Specialist 4	<b>b.</b> Classification No: C8504						
<b>c.</b> Effective Date:		<b>d.</b> Position No: 3000033						
e. Working Title: Senior	Hydrographer	<b>f.</b> Agency No:690						
g. Section Title: Tech S	erv/Surface Water	<b>h.</b> Budget Auth No:						
i. Employee Name:		j. Repr. Code: OAO						
k. Work Location (City – Cour	ty): Salem-Marion	3						
I. Supervisor Name (Optional	):							
m. Position: Permanent	Seasonal	☐ Limited Duration ☐ Academic Year						
⊠ Full-Time	☐ Part-Time	☐ Intermittent ☐ Job Share						
n. FLSA: Exempt	If Exempt:   Execut	tive <b>o.</b> Eligible for Overtime: $\square$ Yes	3					
☐ Non-Exempt	□ Profess     □ A True     □ A True	<u> </u>						
		istrative						
SECTION 2. PROGRAM AND POSITION INFORMATION								

a. Describe the program in which this position exists. Include program purpose, who's affected, size, and scope. Include relationship to agency mission.

This position is in the Hydrographics Program within the Surface Water Hydrology Section of the Technical Services Division. The Surface Water Hydrology Section provides technical expertise regarding surface water and water use data, including the analysis and interpretation, to the Department and the public. Through coordination with others in the agency, the section provides data and analysis critical for responsible water management.

The Hydrographics Program collects streamflow, water temperature, and other hydrologic data from sites statewide, in partnership with Field Services staff, and processes and publishes this data. The data are used for planning, scientific, and management activities within the Department as well as by planners, researchers and scientists working for other state and federal agencies. Much of the data are used as a basis for planning, regulation, hydrologic investigations, and water usage assessments for irrigators and other water users. Hydrographic data are basic to nearly every activity in the Department.

Staff in the Hydrographics Program are also responsible for quality control, training, and setting program standards related to measuring/estimating streamflow, operating stream gages, and producing streamflow

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records. Additionally, program staff are responsible for analysis of hydrographic data, including development of streamflow statistics and other summary information used to characterize streamflow data. Finally, staff establish and maintain the appropriate databases, software, and technological assets required to produce streamflow data.

- b. Describe the primary purpose of this position, and how it functions within this program. Complete this statement. The primary purpose of this position is to:
  - Compute and assess hydrologic records (research and program operations). Work with other similar positions in the Hydrographics program to oversee the generation of streamflow data through directing and reviewing the work of processing, computing, interpreting, and publishing highly technical measurement data and instrumentation output.
  - Develop and apply quality control standards for the review and publication of streamflow and ancillary data (analysis/evaluation). Work with similar positions in the Hydrographics Program to develop quality control standards for the review of measurements, review of stream gage and miscellaneous measurement sites, and computation and publication of streamflow data.
  - Develop, become expert in, apply, and train others in quality assurance standards for the collection of streamflow, water temperature, and specific conductance data (technical assistance/consultation).
  - Plan, lead, and implement hydrographic program special projects (project management).
  - Serve as an expert and external point of contact for information regarding streamflow data (agency representation).

### **SECTION 3. DESCRIPTION OF DUTIES**

List the major duties of the position. State the percentage of time for each duty. Mark "N" for new duties, "R" for revised duties or "NC" for no change in duties. Indicate whether the duty is an "Essential" (E) or "Non-Essential" (NE) function.

% of Time	N/R/NC	E/NE	DUTIES			
Note: If additional	Note: If additional rows of the below table are needed, place curser at end of a row (outside table) and hit "Enter".					
30%	NC	Е	Quality Control Standards			
			Develop, implement, and oversee a system for peer review of all data sets under the control of the Hydrographics program.			
			Develop and document quality control standards for review and publication of streamflow measurements (and associated data sets) and interpreted streamflow record to ensure a high quality of published data.			
			Provide recommendations to the Surface Water Section Manager regarding the need for additional sites, discontinuation of existing			

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			sites, and/or modification of existing sites in collaboration with other staff in the Surface Water Section, as well as staff in the Technical Services Division and Field Services Division as necessary.  Determine locations for streamflow measurements in consultation with other staff in the Surface Water Section, as well as staff in the Technical Services Division and Field Services Division as necessary, using quality control criteria to assess the effectiveness and accuracy of streamflow measurement activities.
20%	NC	Е	Prioritize and direct the daily operations of the Hydrographics program in collaboration with other Senior Hydrographer.  Identify priorities for programmatic development and work with manager to develop plans for implementation.  Coordinate and direct the scoping of the hydrographic equipment inventory (statewide).  Work with Fiscal staff to develop appropriate contractual documents.
15%	NC	E	Hydrologic Records Production  Operate, develop, and maintain the near real-time surface water stream flow, temperature, and crest stage data collection programs through the setting of standards.  Review and interpret streamflow measurement data, including the development of stream gage ratings to produce stream gage records.  Publish streamflow data and present these data in graphic and tabular forms on the Department's website, in collaboration with the Information Technology section, using computer programs to provide access to the Department's streamflow data.  Maintain the Department's surface water measurement databases to comply with records retention requirements.  Perform streamflow data analysis, including record comparisons between sites, flood frequency analysis, and common summary statistics (e.g. annual statistical summaries).  Perform fieldwork, including the collection of streamflow measurements and maintenance of hydrographic equipment in support of program needs.  Maintain expertise with regards to the selection, evaluation, calibration, and use of hydro-acoustic devices used in measuring stream flow.

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			Maintain expertise with regards to satellite transmission of data in all state-operated gages.
			Maintain neat, organized, and professional files, such that public records requests are readily fulfilled, and records retention schedules are easily tracked and implemented.
			Process and review level data at streamgages. Use data to maintain gage datums and to assess changes to stream channels and ratings with time
15%	NC	E	Quality Assurance Standards & Training
			Develop and maintain a high degree of expertise in subjects related to the collection and publication of streamflow data, including streamflow measurement instrumentation, indirect methods for estimating streamflow, streamgage instrumentation, streamgage equipment selection and installation, interpretation of associated streamgage data sets to produce continuous streamflow, related software and device communication platforms, and standard statistical analysis of streamflow data to serve as an agency technical expert on the collection and publication of streamflow data.
			Develop quality assurance standards and protocols on the collection and publication of streamflow data, including selection, evaluation, calibration, and use of hydrographic instrumentation. to produce hydrologic records and interpretation and publication of associated streamflow data sets to inform Department procedures.
			Coordinate purchase of hydrographic equipment with field and hydrographics staff, including development of pertinent contractual documentation.
			Design, develop, and maintain written guidance on the proper methods for installation and operation of streamgages, collection of streamflow measurements, and production of streamflow and streamgage record for watermasters and other field staff.
			Provide regular training on the proper methods for installation and operation of streamgages, collection of streamflow measurements, and production of streamgage record for watermasters and other field staff to ensures that staff maintain skills and are kept informed of current developments in the field that affect their methods and work.
			Design, develop, and provide training for Hydrographics staff on official methods for processing of streamflow record.
15 %	NC	Е	Project Management
			Manage projects involving the collection and production of streamflow record to support hydrologic investigations or other projects as assigned.

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			Ensure associated project contracts or cooperative agreements are following State and Federal laws, regulations, policies, and procedures.  Delegate discrete elements of projects to lower level staff within the program to accomplish project goals.
5%	NC	NE	Agency Representation
			Provide occasional testimony regarding the products of the hydrographic program to inform deliberations of planning commissions and other committees or legal proceedings.
			Provide technical support to outside stakeholders such as consultants as well as other state and federal agencies to ensure transparent access to the Department data.
			Serve as an agency representative in review of technical studies utilizing or summarizing surface water data in Oregon.
100%			

### **SECTION 4. WORKING CONDITIONS**

Describe any on-going working conditions. Include any physical, sensory, and environmental demands. State the frequency of exposure to these conditions.

Extended periods using computer to process and reduce Hydrographic data; frequently up to eight hours per day. The person in this position must have the ability to work under demanding conditions with short timelines. The employee in this position must maintain a high degree of accuracy when performing quality assurance tasks. Occasional overnight statewide travel is required. Exposure to all types of weather generally experienced in Oregon year-round. The position involves walking over rough terrain, through fields and streams, and along stream banks..

#### **SECTION 5. GUIDELINES**

a. List any established guidelines used in this position, such as state or federal laws or regulations, policies, manuals, or desk procedures.

USGS manuals on computation of streamflow records, measurement, and computation of streamflow, sections of FSD Field Operations Manual. In-house documentation on computer operation and miscellaneous procedures. Accepted hydrologic/statistical analysis methods developed by USGS and by WRD.

## b. How are these guidelines used?

Serve as a reference for the proper procedures to follow in making streamflow measurements, computing records, and doing hydrologic analyses.

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#### SECTION 6. WORK CONTACTS

# With whom, outside of co-workers in this work unit, must the employee in this position regularly come in contact?

Who Contacted	How	Purpose	How Often?	
Note: If additional rows of the below table are needed, place curser at end of a row (outside table) and hit "Enter".				
Field Services Staff	Email/Phone/Person	Information Exchange/Assistance and Collaborative Decision Making	Daily	
		9		
Division Staff	Email/Phone/Person	Information Exchange/Assistance	As Needed	
Other Agencies	Email/Phone/Person	Information Exchange/Assistance	As Needed	

### **SECTION 7. POSITION RELATED DECISION MAKING**

### Describe the typical decisions of this position. Explain the direct effect of these decisions.

Make decisions, set standards and procedures on the use of stream flow measuring equipment. Directly affects the effectiveness and accuracy of the surface water measurement and real-time data.

Set priorities for record computation and review. Affects the ability of the program to meet the data needs of anyone making data requests.

Sets procedures to use in computing hydrologic records. Affects quality and accuracy of record, and quality and accuracy of all subsequent uses of the data.

Determines when and where to make streamflow measurements in support of projects. Affects quality of record, and quality and accuracy of all future uses of the data.

Determines maintenance procedures needed and site selection criteria for or relocation of stream gaging stations. Affects quality of record, and quality and accuracy of all future uses of the data.

#### **SECTION 8. REVIEW OF WORK**

## Who reviews the work of the position?

	Classification Title	Position Number	How	How Often	Purpose of Review	
1	Note: If additional rows of the below table are needed, place curser at end of a row (outside table) and hit "Enter"					

Surface Water Section Manager	1000031	Inspection, review of finished or partially completed work.	Performed as work is completed or need for review is determined.	Ensure proper procedures are followed in computing/analyzing hydrologic data and ensuring quality control.

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SE	CTION 9. OVERSIGHT FUNCT	TIONS	THIS SECTION IS FOR	SUPERVISOR	Y POSITIONS ONLY	
a.	How many employees are dire	ctly supervise	ed by this position?	-	0	
	How many employees are sup	ervised throu	gh a subordinate supe	ervisor?	0	
b.	<ul><li>b. Which of the following activities does this position do?</li><li>☐ Plan work</li><li>☐ Coordinates schedules</li></ul>					
	<ul><li>☐ Assigns work</li><li>☐ Approves work</li></ul>		<ul><li>☐ Hires and discha</li><li>☐ Recommends hi</li></ul>	•		
	Responds to grievances		Gives input for p	erformance e		
	☐ Disciplines and rewards		☐ Prepares & signs	s performance	evaluations	
SE	CTION 10. ADDITIONAL POSI	TION-RELAT	TED INFORMATION			
alrea	ITIONAL REQUIREMENTS: List idy required in the classification person in this position must have	specification	: -			
rela a hi stro requ	The person in this position must have a strong understanding of the factors affecting the stage-discharge relationship for the surface water gaging stations. It is required that the person in this position must maintain a high degree of accuracy when performing quality assurance for agency staff. This position requires a strong ability to organize and meet priorities for a large and diverse group of customers. This position requires the ability to work with complex computer applications for up to eight hours per day; and the ability to work under demanding conditions with short timelines.					
tear perf inclusion a w goo age feed	The Department's core values are integrity, service, forward-looking, technical excellence, and teamwork. This position will perform work with these core values in mind. The person in this position performs duties in a manner which promotes customer service and harmonious working relationships, including treating all persons courteously and respectfully; engages in effective team participation through a willingness to assist and support co-workers, supervisors, and other work related associations; develops good working relationships with division and agency staff through active participation in accomplishing the agency mission and resolving problems in a constructive manner; demonstrates openness to constructive feedback in an effort to strengthen work performance; and contributes to a positive, respectful, and productive work environment.					
	DGET AUTHORITY: If this position	ion has autho	ority to commit agency	y operating n	noney, indicate the	
	Operating Area		mount (\$00000.00)		und Type	
Note:	If additional rows of the below table are n	eeded, place curs	ser at end of a row (outside ta	able) and hit "Ent	ter".	

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## **SECTION 11. ORGANIZATIONAL CHART**

Attach a <u>current</u> organizational chart. Be sure the following information is shown on the chart for each position: classification title, classification number, salary range, employee name and position number.

SECTION 12. SIGNATURES			
Employee Signature	Date	Supervisor Signature	 Date
Appointing Authority Signature	 Date		

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