CS-214 Rev 7/2024

Position Code	
1.	

State of Michigan Civil Service Commission

Capitol Commons Center, P.O. Box 30002 Lansing, MI 48909

POSITION DESCRIPTION

This position description serves as the official classification document of record for this position. Please complete this form as accurately as you can as the position description is used to determine the proper classification of the position.

2.Employee's Name (Last, First, M.I.)	8.Department/Agency
	Environment, Great Lakes, and Energy
3.Employee Identification Number	9.Bureau (Institution, Board, or Commission)
4.Civil Service Position Code Description	10.Division
Environmental Engineer 9-P11	Drinking Water and Environmental Health
5. Working Title (What the agency calls the position)	11.Section
Environmental Engineer	Environmental Health
6.Name and Position Code Description of Direct Supervisor	12.Unit
Tanya Rule, Environmental Manager 14	Onsite Wastewater Management Unit
7.Name and Position Code Description of Second Level Supervisor	13.Work Location (City and Address)/Hours of Work
Dana DeBruyn, State Administrative Manager 15	Constitution Hall, Lansing, or another District Office 80 hours/pay period

14. General Summary of Function/Purpose of Position

The Environmental Engineer position conducts Onsite Wastewater Management Unit (OWMU) engineering review/analysis to provide recommendations to OWMU staff or Licensed Engineer to assist in providing technical assistance, consultation, and training to Local Health Departments on engineered wastewater system projects, alternative wastewater treatment system projects, and other wastewater system proposals prepared by a third-party licensed engineer for land divisions, subdivisions, condominiums, and commercial developments of less than 10,000 gallons per day, as these issues relate to the Land Division Act, Michigan Criteria for Subsurface Sewage Disposal (MCSSD), Public Health Code, and related administrative rules. The position conducts the engineering review and provides recommendations to OWMU staff of proprietary wastewater treatment product proposals for efficacy in the State of Michigan. This position will make recommendations on updating technical manuals, technical data, and related guidance documents.

This position assists OWMU staff in performing scheduled accreditation evaluations and self-assessment reviews of LHDs' administration of Onsite Wastewater Program (OWP) s funded under the Essential Local Public Health Services contract.

15. Please describe the assigned duties, percent of time spent performing each duty, and what is done to complete each duty.

List the duties from most important to least important. The total percentage of all duties performed must equal 100 percent.

Duty 1

General Summary of Duty 1 % of Time 40

Conduct engineered and alternative onsite wastewater treatment systems design review and recommend issuance of permit.

Individual tasks related to the duty.

- Conduct initial technical review and provide recommendation to OWMU staff regarding site suitability, soil conditions, and onsite wastewater treatment system design evaluation, review, and approval.
- Conduct initial engineering analysis and examination of third-party licensed engineer or other qualified professional-certified plans, soil logs, specifications, bases of design, maintenance schedules, and supporting studies or other documentation for LHD permitting projects that include onsite wastewater treatment and provide recommendations to OWMU staff.
- Provide recommendations to OWMU staff for modifications, issuance or denial of construction permits according to the LHD's Sanitary Code, Michigan Criteria, Draft Michigan Criteria, Administrative Rules, Public Health Code, and/or Septic Replacement Loan Program based on defined standards and sound engineering practice.
- Provide field technical support to LHDs on site evaluations. Provide recommendations to OWMU staff on determination of
 site suitability approval for onsite wastewater systems, including soil conditions (permeability, water table assessment,
 groundwater mounding analysis, and treatment capabilities), site limitations, and unique site considerations. Evaluations may
 involve onsite wastewater systems for proposed land divisions, subdivisions, or condominiums.
- Assist OWMU staff in the development of training and presentations for engineers and non-engineers on soil identification
 and properties in accordance with the USDA Soil Classification System, onsite wastewater system design and performance,
 site specific hydrogeologic studies to determine groundwater table mounding in direct response to the placement of proposed
 onsite wastewater soil dispersal systems, and plan review protocols of wastewater treatment system projects. Present training
 of supervisor approved program materials.
- Prepare draft responses to inquiries by the public, LHDs, government officials, industry associations, and various organizations regarding statewide standards and considerations for onsite wastewater treatment projects.

Duty 2

General Summary of Duty 2 % of Time 30

Review technical documents and analyze technical data related to alternative and conventional onsite wastewater technologies and recommend approval of their use in Michigan.

Individual tasks related to the duty.

- Review technical studies, literature, plans, and engineering reports on alternative and conventional onsite wastewater treatment technologies and provide recommendation of their approval.
- Assist in the development of technical guidance and information; and provide training on approved wastewater treatment technologies for LHDs, consultants, engineers, and contractors.
- Assist in the development of technical guidance and information; and provide training on groundwater mounding analyses related to onsite wastewater treatment systems for LHDs, consultants, engineers, and contractors.
- Collect and interpret data from field evaluations, third-party testing, or other documentation to determine system effectiveness.

Duty 3

General Summary of Duty 3 % of Time 20

Assist OWMU staff in conducting evaluations and self-assessment review of each LHD's administration of the OWP as part of the Michigan Local Public Health Accreditation Program.

Individual tasks related to the duty.

- Contribute to the development of documents, forms, checklists, and templates to facilitate efficient LHD administration of the OWMU.
- Assist OWMU staff to conduct office evaluations of LHD procedures to assess compliance with minimum program requirements (MPRs).
- Provide written reports for the OWMU supervisor approval, that details the findings from program evaluation activities.
- Assist OWMU staff to conduct follow-up evaluations, as necessary, to verify and document LHD compliance with MPRs and state standards.

Other duties as assigned.	Other duties as assigned.			
 Individual tasks related to the duty. Complete special projects or tasks by deadlines. Prepare reports of findings from program initiatives and/or statewide studies, as assigned and approved by the Unit Supervisor. 				
16.Describe the types of decisions	made independently in this position	n and tell who or what is affected by	v those decisions.	
16.Describe the types of decisions made independently in this position and tell who or what is affected by those decisions. The environmental engineer is responsible for providing recommendations to OWMU staff, Licensed Engineer, or Supervisor on onsite wastewater projects to the permitting LHD from an engineering standpoint to ensure the public's health, safety, and the environment are protected. Project costs are anywhere from several thousand dollars to several million dollars, so a prompt review of the project is critical to the developer.				
17 Describe the torse of desirie	ons that require the supervisor's rev			
The Michigan Criteria requires professional engineer only. Proj professional engineer, registered credentials for the staff reviewing must ensure that the systems with position assists OWMU staff in approval with the unit supervise or Licensed Engineer for decision the State of Michigan. Deviation or the environment, shall involves statewide program policy or that	that detailed construction plans for jects subject to the Administrative denvironmental health sanitarian, and approving these submittals fill function properly so that the deap providing preliminary review. First one on potential uses of newer, then strom traditional design standar we consultation with and approval at may involve litigation are provided to the subject to the su	or projects costing more than \$15,000 e. Rules also require plans to be project or other competent professional. It is on behalf of the LHDs. Further, to the veloper may recover these initial of the least on these projects shad a position is able to make recomming ird-party verified, onsite wastewards or product proposals that may also the unit supervisor. Decisions ded by the unit supervisor.	epared by a licensed EGLE should require the same these reviews and decisions capital investments. This all involve consultation and tendation to the unit supervisor ter proprietary technologies in adversely affect public health, son matters which may impact	
General office environment: store geographical area. Field work of hazards could occur during soil to chemicals in use. There is all entry into confined spaces is essertequires multiple hours of physical spaces.	oping, bending, use of computers can include exposure to heavy equidentification in below-grade pits so occasional use of hand driven a sential to minimizing risk. Conduical labor in doing hand auger borcross acres of property in varying of	wity and condition. Refer to instruct, etc. Some hazards exist in driving aipment, such as backhoes and we so, while traversing varying terrain, augers to complete soil borings. In acting field assessments of subdivings and/or supervising backhoes	ng throughout the assigned ell drilling equipment. Physical or through potential exposure Knowledge of the hazards of isions or condominiums	
19. List the names and position code descriptions of each classified employee whom this position immediately supervises or oversees on a full-time, on-going basis. (If more than 10, list only classification titles and the number of employees in each classification.)				
<u>NAME</u>	CLASS TITLE	<u>NAME</u>	CLASS TITLE	

% of Time <u>10</u>

Duty 4

General Summary of Duty 4

20. This position's responsibilities for the above-listed employees includes the following (check as many as apply):				
Complete and sign service ratings.	Assign work.			
Provide formal written counseling.	Approve work.			
Approve leave requests.	Review work.			
Approve time and attendance.	Provide guidance on work methods.			
Orally reprimand.	Train employees in the work.			
22. Do you agree with the responses for Items 1 through 20? If not	t, which items do you disagree with and why?			
Yes				
23. What are the essential functions of this position?				
This position assists the OWMU supervisor and other program staff, including Licensed Engineer to provide engineering review and approval of onsite wastewater treatment system projects in which LHDs are responsible for issuing a construction permit. The position is also assists OWMU staff in conducting the engineering review and approval of proprietary wastewater treatment product proposals for efficacy in the State of Michigan. Technical manuals, technical data, and related guidance documents will be reviewed and prepared by this position for approval by the unit supervisor.				
24. Indicate specifically how the position's duties and responsibil	lities have changed since the position was last reviewed.			
Position is being downgraded for backfill and training purposes. The Environmental Engineer position conducts Onsite Wastewater Management Unit (OWMU) engineering review/analysis to provide recommendations to OWMU staff or Licensed Engineer to assist in providing technical assistance, consultation, and training to Local Health Departments on engineered wastewater system projects, alternative wastewater treatment system projects, and other wastewater system proposals prepared by a third-party licensed engineer for land divisions, subdivisions, condominiums, and commercial developments of less than 10,000 gallons per day, as these issues relate to the Land Division Act, Michigan Criteria for Subsurface Sewage Disposal (MCSSD), Public Health Code, and related administrative rules. The position conducts the engineering review and provides recommendations to OWMU staff of proprietary wastewater treatment product proposals for efficacy in the State of Michigan. This position will make recommendations on updating technical manuals, technical data, and related guidance documents.				
This position assists OWMU staff in performing scheduled accadministration of Onsite Wastewater Program (OWP) s funded				
25. What is the function of the work area and how does this posit	tion fit into that function?			
The OWMU is responsible for consulting with LHDs concerning single and two-family residential wastewater sites, non-residential sanitary wastewater sites, approval of subdivisions, review of land divisions less than one acre in size, and review of condominium project proposals. The program responsibilities are divided geographically among other OWMU staff and this position will assist in engineered wastewater treatment projects statewide to provide recommendations to OWMU staff for approval. This position is responsible to assistin the review of proprietary and alternative treatment proposals in projects statewide for approval by the OWMU supervisor.				
26. What are the minimum education and experience qualification	ons needed to perform the essential functions of this position?			
EDUCATION:				
Possession of a bachelor's degree in engineering				
EXPERIENCE:				
Environmental Engineer 9 No specific type or amount is required.				
resources, environmental health, onsite wastewater treatment to an Environmental Engineer 9.	erience in the protection and improvement of land and water ent design, and alternative onsite wastewater technology equivalent			
Environmental Engineer P11				

Two years of professional experience equivalent to an Environmental Engineer including one year equivalent to an Environmental Quality Analyst 10.		
KNOWLEDGE, SKILLS, AND ABILITIES:		
Knowledge of the principles and practices of environmental engineering.		
Knowledge of the principles of environmental health, including onsite water supply and onsite wastewater treatment. Knowledge of the scientific principles relative to environmental control.		
Knowledge of mathematical models that simulate or predict waterflow and dispersal.		
Knowledge of nomenclature and symbols used in engineering, drafting, and design	1.	
Ability to apply principles and practices to environmental engineering.		
Ability to read engineering drawings.		
Ability to read, interpret, and write engineering reports.		
Ability to collect and analyze engineering data.		
Work experience and training in the United States Department of Agriculture's So	il Classification System.	
Ability to interpret and create soil reports; interpret complex scientific and legal document; prepare written documents; conduct verbal presentations; and work effectively with other professionals and the public.		
Ability to maintain records, and prepare reports and correspondence related to the work.		
Comprehensive knowledge of computer operations (Word, Excel, Access, PowerPoint).		
Ability to communicate effectively with others.		
Ability to maintain favorable public relations.		
CERTIFICATES, LICENSES, REGISTRATIONS:		
Driver's License Preferred		
Ability to obtain a Michigan Professional Engineer License within 3 years of offer of employment to transition to an Environmental Engineer Licensed 12 position.		
Environmental Engineer Dicensed 12 position.		
NOTE: Civil Service approval of this position does not constitute agreement with or acceptance		
I certify that the information presented in this position description provide	es a complete and accurate depiction of	
the duties and responsibilities assigned to this position.		
Supervisor's Signature	Date	
TO BE FILLED OUT BY APPOINTING	AUTHORITY	
Indicate any exceptions or additions to statements of the employee(s) or supervisors.		
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I cousify that the outsing on the second second second second second		
I certify that the entries on these pages are accurate and complete.		
Annointing Authority Signature	Data	
Appointing Authority Signature	Date	

TO BE FILLED OUT BY EMPLOYEE			
I certify that the information presented in this position description provides a complete and accurate depiction of the duties and responsibilities assigned to this position.			
Employee's Signature	Date		

NOTE: Make a copy of this form for your records.