



## Birmingham Water Works Job Description

**Job Title: Watershed Protection Specialist**

**Department: Engineering - 954**

**Reporting Relationship: Principal Engineer-Water Quality/Purification      Exempt Status: Exempt**

**Grade: 40**

### **General Responsibilities:**

To enforce the Board's watershed protection policy; review construction site erosion control plan submitted by developer and ensure compliance through periodic inspections. Investigate reports of environmental problems within the watersheds.

### **Essential Job Functions:**

1. Work with System Development and Distribution to assure compliance with federal, state, and local environmental regulations in the installation of water lines.
2. Conduct periodic watershed, river and lake water quality monitoring for multiple parameters as multiple depths as required.
3. Conduct temperature check for the dams via SCADA technology to document turnover of the lakes. Ensure temperature monitoring equipment is maintained.
4. Recommend improvements and additions to in-house construction site erosion control program and watershed protection policy.
5. Routinely monitors both Board landfills to ensure they are periodically graded to continue receiving filter plant residuals.
6. Perform water quality sampling of multi parameters and ORP and DO testing at multiple depths for effectiveness of solar bee units and Lake Purdy.
7. Act as the SME and remain current on storm water quality and quantity control technologies.
8. Maintain a list and map GPS locations of NPDES permits, monitor ADEM weekly publication to determine if there are opportunities to comment on NPDES permits regarding watersheds.
9. Review plans submitted for development in watershed.
10. Monitor Alabama Surface Mining Commission notices for mining permits available for comment.
11. Perform SAP tasks related to purchasing of goods and services.
12. Visit construction sites to ensure compliance with plan enforcement of Board policy.
13. Work with Distribution Department to assure compliance with federal, state, and local environmental regulations in the installation of water lines.
14. Will conduct periodic river and lake water quality monitoring.
15. Recommends improvements and additions to in-house construction site erosion control program and watershed protection policy.
16. Maintains files and records on projects.
17. Perform other duties as assigned.

### **MINIMUM QUALIFICATIONS**

**Education:**

Bachelor's Degree, Environmental management or closely related fields such as Geology, Hydrology, Chemistry, or Civil/Environmental Engineering required or ability to obtain degree within 2 years. Field and/or office experience of five (5) years in a closely related field may be considered for substitution of some college requirements.

**Experience:**

Ten (10) years of Best Management Practices. Comprehension skills for complex legal documents and issues. Knowledge of water quality management. Must have computer knowledge; familiar with databases, spreadsheets and word processing. Familiarity with calculators and the ability to calculate construction estimates, areas and trigonometric functions required. Must be familiar with maps and records; knowledge with Plano graphic map systems preferred. An understanding of general chemistry is also preferred. Must possess good verbal and written communication skills; must have comprehension skills for complex legal documents and issues and must have some knowledge of water quality management, including the latest Best Management Practices, Principles and Philosophies.

**Supervision:**

NONE

**Certificates, Licenses, Registrations:**

Qualified Credentialed Inspector (QCI)  
ADEM certificate for watersheds  
Grade 1  
Grade 4  
Valid Alabama Driver's License

**COMPETENCIES:**

To perform the job successfully, an individual should demonstrate the following competencies:

**Design**

- Generates creative solutions;
- Translates concepts and information into images;
- Uses feedback to modify designs;
- Applies design principles; Demonstrates attention to detail.

**Written Communication**

- Writes clearly and informatively;
- Edits work for spelling and grammar;
- Varies writing style to meet needs;
- Presents numerical data effectively;
- Able to read and interpret written information.
- Supports affirmative action and respects diversity.

**Strategic Thinking**

- Develops strategies to achieve organizational goals;
- Understands organization's strengths & weaknesses;
- Analyzes market and competition;
- Identifies external threats and opportunities;

- Adapts strategy to changing conditions.

**Innovation**

- Displays original thinking and creativity;
- Meets challenges with resourcefulness;
- Generates suggestions for improving work;
- Develops innovative approaches and ideas;
- Presents ideas and information in a manner that gets others' attention.

**Judgment**

- Displays willingness to make decisions;
- Exhibits sound and accurate judgment;
- Supports and explains reasoning for decisions;
- Includes appropriate people in decision-making process;
- Makes timely decisions.

**Planning/Organizing**

- Prioritizes and plans work activities;
- Uses time efficiently;
- Plans for additional resources;
- Sets goals and objectives;
- Organizes or schedules other people and their tasks;
- Develops realistic action plans.

**Physical Demands:**

Ability to stand, walk or sit for extended periods of time

Reaching by extending hand(s) or arm(s) in any direction

Finger dexterity by manipulating objects with fingers rather than whole hand(s) or arm(s), for example, using a keyboard

Communication skills using the spoken word

Ability to see within normal parameters

Ability to hear within normal range

Ability to move about

Ability to lift up to 100 lbs

**Working Environment:**

Work indoors and outdoors, subject to hazards of extreme hot/cold, rainy weather conditions as well as in proximity of construction activities.

Revised: 04/18