

JOB DESCRIPTION

Benchmark Job #350

Ministry: Environment, Lands and Parks
Branch: Waste Management
Location: Prince George

Working Title: **Regional Air Monitoring Technician**
Level: Range 15
Classification: Scientific Technical Officer

PRIMARY FUNCTION

To install and maintain a network of air quality and meteorological monitoring stations and provide air quality data from the stations to ministry programs, industry, agencies and the general public.

JOB DUTIES AND TASKS

1. Operates and maintains a regional ministry network of air quality and meteorological stations
 - a. inspects stations to ensure that all equipment is functioning to prescribed standards
 - b. operates, maintains and calibrates electronic monitors and data logging equipment
 - c. retrieves and reports data and makes an initial assessment to verify the validity and reliability of data collected
 - d. coordinates processes for testing and gathering air quality data by setting up and monitoring equipment
2. Performs quality control and inspects the operation of stations not operated by the ministry
 - a. inspects stations operated by non-ministry staff to ensure that they are within prescribed standards
 - b. audits and evaluates the data collected from non-ministry operated collection stations
 - c. trains others in the operation and maintenance of collection station equipment
 - d. assesses operators and identifies need for training
 - e. resolves problems relating to the timeliness and accuracy of air quality data collected
3. Reports on ambient air quality and meteorological conditions
 - a. monitors real time and recorded levels
 - b. recognizes potential problems
 - c. prepares data summaries for distribution
4. Reports on impacts of air emission on ambient air
 - a. conducts analysis of air emissions on ambient air
 - b. responds to complaints on air quality issues and initiates investigations of complaints
 - c. prepares meteorological dispersion models
 - d. writes summary reports and data summaries
5. Selects new air quality monitoring sites and installs new air monitoring stations
 - a. provides designs and budget estimates and recommendations to supervisor
 - b. identifies and selects sites
 - c. arranges use of properties and facilities
 - d. provides installation and ancillary support
6. Performs other related duties
 - a. assists in aquatic and terrestrial sampling
 - b. answers relevant questions from the general public, operators and others
 - c. drives a light vehicle to field site operations
 - d. provides budget estimates for new equipment and/or programs

REASON FOR CLASSIFICATION

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FACTOR NO.	REASON FOR CLASSIFICATION	DEGREE	CLASS. POINTS
1	<p>JOB KNOWLEDGE Have a practical understanding of air quality measurement and meteorology to maintain a network of air quality/meteorological stations and verify applications to improve air quality measurement at the collection stations.</p>	F	190
2	<p>MENTAL DEMANDS Judgement required to apply analysis and interpretation of air and meteorological data to collect and conduct quality control check using a combination of accepted methods and resolve quality control problems.</p>	E	150
3	<p>INTERPERSONAL COMMUNICATIONS SKILL Discretion required to exchange information needing explanation to coordinate repairs, and respond to complaints on air quality issues.</p>	C	30
4	<p>PHYSICAL COORDINATION AND DEXTERITY Significant coordination and dexterity to calibrate and adjust electronic monitors and measurement equipment to precise tolerances.</p>	D	22.5
5	<p>RESPONSIBILITY FOR WORK ASSIGNMENTS Guided by general procedures or instructions, selects alternative course of action to coordinate repairs to test station equipment, establish new test sites, and to select components of monitoring programs.</p>	D	75
6	<p>RESPONSIBILITY FOR FINANCIAL RESOURCES Moderate financial responsibility to formulate budget estimates for new air and meteorological monitoring programs requiring knowledge of operational equipment.</p>	D	22.5
7	<p>RESPONSIBILITY FOR PHYSICAL ASSETS/INFORMATION Significant responsibility to ensure the quality of data collected from monitoring devices where the timeliness and accuracy of readings is critical.</p>	D	22.5

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FACTOR NO.	REASON FOR CLASSIFICATION	DEGREE	CLASS. POINTS
8	RESPONSIBILITY FOR HUMAN RESOURCES Responsibility to formally train others in the operation and maintenance of testing stations.	B	9
9	RESPONSIBILITY FOR WELL BEING/SAFETY OF OTHERS Limited care and attention to drive to air monitoring sites to conduct business, as the driver of convenience.	B	10
10	SENSORY EFFORT/MULTIPLE DEMANDS Focused sensory concentration to frequently calibrate equipment, inspect data collections stations, prepare data summaries and develop dispersion models.	C	12
11	PHYSICAL EFFORT Moderate physical effort is required to frequently stand and walk while gathering data from air monitoring sites.	C	12
12	SURROUNDINGS Exposure to outdoor work in all weather conditions with shelter available on a regular basis.	B	4
13	HAZARDS Limited exposure to hazards from driving on a regular basis to data gathering sites.	B	4

Total Points: 563.5

Level: Range 15