



CITY OF OMAHA CLASS SPECIFICATION

CLASSIFICATION TITLE: WASTEWATER RESIDUALS TECHNICIAN

BARGAINING UNIT: [CIV BARGAINING](#)

CODE NUMBER: 5567

PAY RANGE CODE: [03127](#)

REVISION DATE: 8/31/17

NATURE OF WORK:

This is technical work in the administration of the Public Works Department's sludge application program. Work involves monitoring the farm fields which have had sludge from the City's wastewater treatment facilities applied to them as fertilizer and maintaining a database of information from each farm field in the program. It involves operating equipment to clean grit for reuse on City streets and monitoring the City's compost operation. It also involves the responsibility to verify billings to farmers, sludge haulers, and the laboratory which analyzes the soil samples. An employee in this classification exercises considerable independence in the performance of duties, and receives daily work assignments from a superior and provides technical guidance to subordinates.

ESSENTIAL FUNCTIONS: *(Any one position may not perform all the duties listed, nor do the listed examples include all the duties that may be performed in positions allocated to this class.)*

Coordinates with area farmers who have contracted with the City to arrange to deliver sludge to be applied to their fields and monitors its delivery and application.

Takes composite soil samples from each acre of land applied, blends the samples, and designates the analyses to be performed before delivering the samples to the testing laboratory.

Calculates the amount of sludge to be applied based on soil sample analyses, the amount of nutrient reserves already available in the soil, crop history of each field, the use of other fertilizers, and the type of crops to be planted using Nebraska Department of Environmental Quality (NDEQ) guidelines.

Calibrates the rate at which the sludge is applied based on the capacity and broadcast width of each farmer's fertilizer spreader.

Selects sludge storage areas at farm sites and approves hauling routes, considering such issues as bridge capacities, terracing, proximity to water drainage ways, surface waters, residences, and wells.

Operates equipment used to clean sewer grit and street sweepings for reuse.

Maintains a database on each farm, noting laboratory analyses, number of loads of sludge delivered, permits applied for, and other data required by the NDEQ.

Prepares and submits state and county permit applications for each farm in the program.

Reviews billings generated by the program, including bills from the soil testing laboratory, hauling contractor, and the farmers.

Provides customer service to farm operators, informing and educating them as to the safe and beneficial use of sludge, and encouraging their continued or increased participation in the sludge application program.

Monitors and maintains records on the City's compost operation, testing the temperature and moisture content of maintained compost piles, and orders specific mixtures of their components.

Maintains regular job attendance in accordance with a schedule established for the position by the supervisor.

Performs other related duties as assigned or as the situation dictates within the scope of this classification.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of and ability to operate a computer or other technology using standard or customized computer or systems software applications appropriate to the assigned tasks.

Knowledge of the hazards involved in working with industrial equipment and the safety precautions necessary to prevent injury.

Skill in performing arithmetic operations.

Skill in use of hand and power tools.

Ability to learn and adapt to advances in computer and electronics device technology and software.

Ability to learn to read legal descriptions and plat and other maps.

Ability to make measurements of land distances and draw rough sketches from them.

Ability to learn to operate equipment such as front-end loaders, forklifts, and grit cleaning equipment.

Ability to learn agricultural terminology and understand the farming industry.

Ability to understand oral or written instructions.

Ability to explain regulations and contract provisions with farm operators and to coordinate sludge applications and deliveries.

Ability to establish and maintain effective working relationships with fellow employees and members of the general public.

Ability to adhere to safety policies, procedures, and guidelines.

Ability to climb, reach, balance, bend, stoop, stand, walk, push, pull, lift, sit, type, and drive up to 100% of the time.

Ability to use up to one hundred (100) pounds of force to move objects up to 33% of the time, up to fifty (50) pounds of force to move objects from 34 to 66% of the time, and to use twenty (20) pounds of force to move objects 67 to 100% of the time.

EDUCATION AND EXPERIENCE: *(The knowledge, skills, and abilities above may be acquired through, but are not limited to, the following combination of education and/or experience.)*

High school graduation or its equivalent.

Post-secondary coursework in chemistry, biology, or agricultural science preferred.

SPECIAL QUALIFICATIONS

Must be able to work weekends and outside normal duty hours.

Must possess a valid motor vehicle operator's license.

Must possess a forklift operator's permit by the end of the probationary period.

WORKING CONDITIONS: *(The conditions herein are representative of those that must be met by the employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.)*

Work is performed primarily outdoors in all weather conditions, with or near moving machinery, electrical currents, amid noise levels requiring speaking above a normal level to be heard, and exposed to dust, fumes, odors, and chemicals.

EQUIPMENT OPERATION: *(Any one position may not use all of the tools and equipment listed nor do the listed examples comprise all of the tools and equipment that may be used in positions allocated to this classification.)*

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| Computer | Calculator | Telephone |
| Copier | Facsimile Machine | Front End Loader |
| Skid Loader | Portable Generator | Forklift |
| Power Auger | Soil Probe | Hand tools |
| Gravel Washer | Power Screen | Farm Tractor |
| Truck Mounted Fertilizer Spreader | | |
| Pickup and Single Axle Dump Trucks | | |

Previous Revision Date(s): 3/17/94

**WASTEWATER RESIDUALS TECHNICIAN-ENVIRONMENTAL QUALITY CONTROL
PHYSICAL REQUIREMENTS**

Physical Requirements	EXAMPLES OF RELATED JOB DUTIES	Rarely 1-5%	Occasionally 6-33%	Frequently 34-66%	Continuously 67-100%
Standing	Bagging compost, talking to field owners, observing agricultural crops.		X		
Walking	Gathering soil samples from farm plot, marking setbacks with colored flags and carrying compost bags.		X		
Sitting	Doing computer work, driving work vehicle and operating tandem axle dump truck to transport materials to landfill.		X		
Lifting	Raising and lowering an object weighing up to 50lbs.		X		
Carrying	Transporting an object up to 50lbs.		X		
Climbing	Filling in at compost facility. Getting in/out various vehicles and ladders.	X			
Balance	While walking on uneven terrain during soil testing and getting in/out of heavy machinery.		X		
Stooping	Bagging compost, soil sampling, greasing equipment, airing tires.		X		
Kneeling	While soil sampling, greasing equipment, airing tires.	X			
Crouching	While soil sampling, greasing equipment, airing tires.	X			
Reaching	While soil sampling, greasing equipment, airing tires.		X		
Hand Usage	Driving, typing, taking soil samples, using various hand tools for maintenance, pry bar to pull soil probe out of clay.			X	