

Job Demands Analysis: Assist with Water Main Flushing (Light Duty)

Company Name: City of Richmond – Water Department

Job Title: Assist with Water Main Flushing (Light Duty)

General Work Environment:

- Outdoor (temperature is dependent on weather)
- Driving a city vehicle
- Required to wear steel toed boots, safety vest/overalls

Work Hours/Breaks: 7:30am-4:00pm, (2) X 10 minute rest breaks, (1) X 30 minute lunch break

Tools used may include: wrench, hose



1. Ex. Water Main Flushing

Job Task Categories:

- 1) Driving a city vehicle – through out the City of Richmond to appropriate destination.
- 2) Reading a list of addresses on a map to locate work areas.
- 3) Monitoring the flushing of water.
- 4) Assist co-worker with hooking up sections (if able to assist).

Functional Requirements:

| GENERAL FUNCTIONS: | AMOUNT: | % OF WORKDAY | DESCRIPTION/COMMENTS |
|---------------------------------|--|--------------|---|
| Walking | Variable distances | 33-66% | <ul style="list-style-type: none"> ▪ To/from van to worksite ▪ Walking over various surfaces outside: including grass/mud hills, uneven terrain, roads, sidewalks |
| Standing | Sustained | 1-33% | <ul style="list-style-type: none"> ▪ Static standing when monitoring |
| Climbing | | 1-33% | <ul style="list-style-type: none"> ▪ Climbing in/out of the vehicle |
| Sitting/Driving | Variable, Up to 10 minutes continuously | 1-33% | <ul style="list-style-type: none"> ▪ Operation of vehicle (typically automatic) – within the City of Richmond ▪ May also sit when monitoring flushing (as an alternative to standing) |
| Kneeling / Crouching / Stooping | Variable | 1-33% | <ul style="list-style-type: none"> ▪ May vary depending on work style, as needed when accessing workspaces -Worker is not required to extensively perform if too difficult |
| Neck positioning | Flexion, rotation | 33-66% | <ul style="list-style-type: none"> ▪ When viewing work spaces on the ground (flexion) ▪ When driving (rotation) – i.e. shoulder checking |
| Reaching | In front, to the side | 1-33% | <ul style="list-style-type: none"> ▪ May vary depending on work style when operating steering wheel and hooking up sections of hose ▪ Overhead reaching is not required |
| MATERIALS HANDLING: | AMOUNT: | % OF WORKDAY | DESCRIPTION/COMMENTS |
| Handling / Grasping | Power Grasp | 33-66% | <ul style="list-style-type: none"> ▪ 1-2 handed grasp of steering wheel, up to 10 minutes continuously ▪ 1-2 handed grasp of tools/equipment |
| Lifting/Carrying | Light | 1-33% | <ul style="list-style-type: none"> ▪ Items handled may include: wrench, hand tools, sections of hose |
| Pushing / pulling | Light resistance | 1-33% | <ul style="list-style-type: none"> ▪ When handling hose (not required if unable to perform) |

**Consider for upper and lower extremity injuries, back injuries. With the opportunity to self-pace, and take rest breaks when needed.*