

EMPLOYEE:

CLAIM #



## Job Analysis Form

ALTERNATE FORMAT AVAILABLE

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**JOB TITLE**      Engineer I      **JOB CLASSIFICATION**  
**DICTIONARY OF OCCUPATIONAL TITLES (DOT) NUMBER:** 029.261-014  
**DOT TITLE:** Pollution Control Technician  
**DEPARTMENT**    Natural Resources      **DIVISION** Solid Waste Division  
**# OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE:** 2  
**CONTACT'S NAME & TITLE:** Pamela Badger  
**CONTACT'S PHONE**                      206-296-8441  
**ADDRESS OF WORKSITE**      Cedar Hills Landfill, 16645 228<sup>th</sup> Ave SE, Maple Valley, WA  
**VRC NAME** Thomas S. Sproger MS, CRC, CEAS II      **DATE COMPLETED** 8/13/10  
**WORK HOURS**    6:00AM-2:30PM

**OVERTIME** (Note: Overtime requirements may change at the employer's discretion)

☐ Required, between    and    hours per year

☒ Optional

☐ Does not occur

**JOB DESCRIPTION:** This job exists to obtain useable water samples from landfill and transfer station area wells for testing by independent laboratory to ensure water tables remain uncontaminated by landfill.

### ESSENTIAL ABILITIES FOR ALL KING COUNTY JOB CLASSIFICATIONS

1. Ability to demonstrate predictable, reliable, and timely attendance.
2. Ability to follow written and verbal directions and to complete assigned tasks on schedule.
3. Ability to read, write & communicate in English and understand basic math.
4. Ability to learn from directions, observations, and mistakes, and apply procedures using good judgment.
5. Ability to work independently or part of a team; ability to interact appropriately with others.
6. Ability to work with supervision, receiving instructions/feedback, coaching/counseling and/or action/discipline.

## **JOB SPECIFIC REQUIREMENTS-ESSENTIAL FUNCTIONS**

1. Sits at desk and plans work
  - a. reviews paperwork outline wells needing testing
  - b. locates wells on map
  - c. Assesses time requirements for each well based on knowledge of well size and depth
  - d. Plans number and kind of well readings to take
2. Sits in vehicle and drives to well sites
  - a. Plans route taking into account traffic issues
  - b. Prepares for activities: fills 5 gal. bucket with ice and pours into cooler
  - c. Checks instruments, supply of bottles and obtains additional equipment as needed
  - d. Operates 1 ton pick up with "Camper" shell mobile lab to drive to wells
3. Opens well and hooks up pressure line, depth finder, and water evacuator hose to wells
  - a. Walks from vehicle to well and unlocks well to access water valve
  - b. Drops nitrogen hose thru' hole in bottom of truck
  - c. May kneel or bend to retrieve hose from under vehicle
  - d. Stands while attaching Nitrogen hose to well
  - e. Carries depth finder and stands while slipping depth finder down well hole.
  - f. Walks to truck and climbs up into "camper"
  - g. Starts pump to pressurize well
4. Collects and tests samples (3 or 4) until consistent conductivity, Ph and temp. readings are obtained. This task requires climbing up and down into camper 10 times.
  - a. Stands or sits while waiting for pump to evacuate sufficient water to begin taking test samples
  - b. Climbs down from truck cab or camper and walks to well
  - c. Takes approx 1 cup sample of water, walks back to truck, and climbs up into camper
  - d. Separates sample into smaller bottles
  - e. Prints information on labels and affixes labels to sample bottles
  - f. Tests conductivity of water using water conductivity test prod
  - g. Tests ph and temp of water using probe from test equipment
  - h. Handwrites notes documenting findings on form he has for that purpose
  - i. Observes results of 3 or more separate samples,
  - j. When 4 samples have been found to be consistent, he is then ready to take true sample.
5. Bottles "true test" samples for laboratory testing; labels and packs in ice to prevent decomposition
6. May repeat process at 1 or 2 or even 3 other wells

## **NON-ESSENTIAL FUNCTIONS**

1. Delivers samples to lab

## **PERSONAL PROTECTIVE EQUIPMENT USED**

Reflective vest, nitrile gloves, leather gloves, boots, water level indicator, label printer, compressed gas tank & regulator,

## **OTHER TOOLS & EQUIPMENT USED**

Conductivity tester, Ph and temp. tester

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## PHYSICAL DEMANDS AS JOB IS TYPICALLY PERFORMED

Continuously = occurs 66-100% of the time

Frequently = occurs 33-66% of the time

Occasionally = occurs 1-33% of the time

Rarely = may occur less than 1% of the time

Never = does not ever occur (such demands are not listed)

Highly Repetitive = Repeating the same motion every few seconds with little or no variation for more than two hours total per day.

### This job is classified as

Sedentary—exerting up to ten pounds of force occasionally and/or a negligible amount of force frequently. A sedentary job involves sitting most of the time.

**Light—exerting up to 20 pounds of force occasionally, and/or up to 10 pounds of force frequently and/or a negligible amount of force constantly. A job is light if involves less than or up to the indicated pounds of force and one or more of the following apply: walking and standing to a significant degree, sitting and pushing/pulling of arm or leg controls, or constant pushing and pulling to maintain a production rate even when weight is negligible.**

Medium—exerting 20 to 50 pounds of force occasionally, and/or 10-25 pounds of force frequently, and/or up to 10 pounds of force constantly.

Heavy—exerting 50-100 pounds of force occasionally, and/or 25-50 pounds of force frequently, and/or 10-20 pounds of force constantly to move objects.

Very Heavy—exerting in excess of 100 pounds of force occasionally, and/or in excess of 50 pounds of force frequently, and/or in excess of 20 pounds of force constantly to move objects.

### Standing

Health Care Provider initials if restricted\_\_\_\_\_

Continuously **Frequently** Occasionally Rarely

on “camper” floor, pavement, grass, gravel surfaces for 10-15 minutes at a time for up to 5 hours total in a work shift. Most commonly occurs while running tests & collecting samples.

### Walking

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive

On asphalt pavement, grass, & gravel surfaces for 10-15 minutes at a time for up to 3 hours total in a work shift. Most commonly occurs while running tests & taking samples.

### Sitting

Health Care Provider initials if restricted\_\_\_\_\_

Continuously **Frequently** Occasionally Rarely

on vehicle seat for up to 2 hours at a time & for up to 5 hours total in a work shift. Most commonly occurs while driving to and from sample sites.

**Climbing stairs**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely **& Highly Repetitive**  
 for 1-2 minutes at a time while climbing 3-5 steps for up to 3 hours total in a work shift. Most commonly occurs while going from camper to well head. May also climb steep trail to get to well for 5-20 minutes at a time and up to 1 hour in shift.

**Climbing (ladders) **Not Present******Balancing **Not Present******Bending neck up**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently Occasionally **Rarely** & Highly Repetitive  
 for 1-2 minutes at a time for up to ¾ hour total in a work shift. Most commonly occurs while opening and viewing equipment in camper overhead bin.

**Bending neck down**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously **Frequently** Occasionally Rarely & Highly Repetitive  
 for 5-10 min. at a time for up to 4 hours total in a work shift. Most commonly occurs while collecting water samples from wells.

**Bending/Stooping**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously **Frequently** Occasionally Rarely **& Highly Repetitive**  
 on grass, gravel and asphalt surfaces for 10 minutes at a time for up to 4-5 hours total in a work shift. Most commonly occurs while collecting and testing samples. Note: Workers bend forward only slightly (20-30 degrees from neutral) but do so quite frequently.

**Kneeling**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive  
 on grass, gravel, & asphalt or concrete surfaces for 1-5 minutes at a time for up to 60 minutes total in a work shift. Most commonly occurs while retrieving hose from under pick-up bed.

**Squatting**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently Occasionally **Rarely** & Highly Repetitive  
 on grass, gravel, & asphalt or concrete surfaces for 1-5 minutes at a time for up to 30-45 minutes total in a work shift. Most commonly occurs while retrieving hose from under pick-up bed.

**Crawling**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently Occasionally **Rarely** & Highly Repetitive  
 on grass, gravel, & asphalt or concrete surfaces for 1-5 minutes at a time for up to 30-45 minutes total in a work shift. Most commonly occurs while retrieving hose from under pick-up bed.

**Operating Controls with Feet**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously **Frequently** Occasionally Rarely & Highly Repetitive  
 Operates foot controls of pick-up truck for 1-2 hours at a time for up to 4-5 hours total in a work shift while driving to or from well sites and delivering samples to lab

**Reaching above shoulder height**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive  
for 1-2 minutes at a time for up to 60-75 minutes total in a work shift while reaching into overhead bins.

**Reaching at waist to shoulder height**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously **Frequently** Occasionally Rarely & Highly Repetitive  
at a time for up to 1-2 hours at a time and 4-5 hours total in a work shift while driving to/from well sites and lab.

**Reaching at knee to waist height**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive  
Employee reaches below waist 1-3 minutes at a time for up to 1 hour total in a work shift while collecting samples.

**Reaching at floor to knee height**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently Occasionally **Rarely** & Highly Repetitive  
for up to 1-2 minutes at a time and for ½ hour total in a work shift while retrieving hose from under truck.

**Lifting 1-10 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive  
Employee lifts and carries for only a minute or two at a time and no more than an hour or so total in a work shift. This occurs while lifting/carrying smaller sample bottles to vehicle and to lab.

**Carrying 1-10- pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive  
Employee lifts and carries for only a few minutes at a time and no more than an hour or so total in a work shift.. This occurs while lifting/carrying smaller sample bottles to vehicle and to lab.

**Lifting 11-20 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive  
Employee lifts and carries for only a few minutes at a time and no more than an hour or so total in a work shift. This occurs while lifting/carrying full sample bottles.

**Carrying 11-20 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive  
Employee lifts and carries for only a few minutes at a time and no more than an hour or so total in a work shift. This occurs while lifting/carrying full sample bottles.

**Lifting 21-50 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive  
Employee lifts and carries for only a minute or two at a time and no more than an hour or so total in a work shift.. hour or so total in a work shift.. This occurs while carrying ice-filled coolers and ice buckets to vehicle.

**Carrying 21-50 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive

Employee lifts and carries for only a minute or two at a time and no more than an hour or so total in a work shift.. hour or so total in a work shift.. This occurs while carrying ice-filled coolers and ice buckets to vehicle.

**Lifting 51-100 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently Occasionally **Rarely**

Workers are required to lift manhole covers weighing 65-85 pounds. This is accomplished with a long handled hook to reduce bending. Nevertheless, it still represents a force requirement that exceeds NIOSH requirements NIOSH recommends against any task requiring abilities beyond the strength of 75% of the population. For lifting that is 40-42 pounds. This task occurs only on rare occasion (once or twice a week at most).

**Carrying 51-100 pounds**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently Occasionally **Rarely**

Workers are required to load and unload bottles of nitrogen weighing in excess of 120# when full. However the bottles are not generally lifted. Instead they are pulled forward to tip them, placed on hand truck and wheeled onto pickup bed from whence they are slid into place. Employee may lift one to get it firmly into place,

**Lifting 100+ pounds Not Present**

Health Care Provider initials if restricted\_\_\_\_\_

Workers are required to load and unload bottles of nitrogen weighing in excess of 120# when full. However the bottles are not lifted. Instead they are pulled forward to tip them, placed on hand truck and wheeled onto pickup bed from whence they are slid into place.

**Carrying 100+ pounds Not Present**

Health Care Provider initials if restricted\_\_\_\_\_

Workers are required to load and unload bottles of nitrogen weighing in excess of 120# when full. However the bottles are not lifted. Instead they are pulled forward to tip them, placed on hand truck and wheeled onto pickup bed from whence they are slid into place.

**Pushing and Pulling**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive

Workers are required to load and unload bottles of nitrogen weighing in excess of 120# when full. However the bottles are not lifted. Instead they are pulled forward to tip them, requiring about 30# (estimate) of force. They are then placed on hand truck and pushed (40# force) onto pickup bed from whence they are slid into place. This requires 5-10 minutes at the most once a day. Employees may also pull level-loggers, pump handles, and reel-in WLI's.

**Handling/Grasping**

Health Care Provider initials if restricted\_\_\_\_\_

Continuously **Frequently** Occasionally Rarely & Highly Repetitive

Workers handle tubes, probes, pencil/pen while testing and collecting samples. This occurs for 3-5 minutes at a time for up to 4 hours total in a work shift .

### Operating Controls with Hands

Health Care Provider initials if restricted \_\_\_\_\_

Continuously **Frequently** Occasionally Rarely & Highly Repetitive

Operates steering and gearshift controls of County vehicle for 1-2 hours at a time for up to 4-5 hours total in a work shift while driving to/from well site or lab.

### Fingering

Health Care Provider initials if restricted \_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive

Employee finger small sample bottles and vials, VOA vials, turbidity vials, calibrating instruments and pinching WLI tape for 3-5 minutes at a time for up to 2.5 hours total in a work shift while

### Feeling

Health Care Provider initials if restricted \_\_\_\_\_

Continuously Frequently Occasionally Rarely & Highly Repetitive

of for at a time for up to total in a work shift while

### Talking

Health Care Provider initials if restricted \_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive

Communicates with lead, landfill personnel or supervisor for a few minutes at a time for up to 1¼ hour total in a work shift. Typically occurs while attending meetings, interacting with staff and supervision.

### Hearing

Health Care Provider initials if restricted \_\_\_\_\_

Continuously Frequently **Occasionally** Rarely & Highly Repetitive

Communicates with lead, landfill personnel or supervisor for a few minutes at a time for up to 1¼ hour total in a work shift. Typically occurs while attending meetings, interacting with staff and supervision.

### Seeing

Health Care Provider initials if restricted \_\_\_\_\_

**Continuously** Frequently Occasionally Rarely

for 8 hours at a time for 8+ hours total in a work shift while driving, taking samples, observing test results and writing notes. Vision is required for ALL tasks.

### Working with Heightened Awareness

Health Care Provider initials if restricted \_\_\_\_\_

Continuously **Frequently** Occasionally Rarely

for 1-2 hours at a time for 4-5 hours total in a work shift while driving King county vehicle on highways and freeways. Also must remain alert for wild animals at some locations.

### ENVIRONMENTAL FACTORS

Work is performed part of the time in an outdoor setting and the rest inside a pickup camper truck

The noise level is not a problem

### Work environment may include the following exposure(s):

Outside weather

Exhaust Fumes

Garbage and other odors

LFG, H2S, NO and other gases

Stinging insects (wasps, bees, ants, yellowjackets)

HCP Initials if Restricted


KING COUNTY JOB ANALYSIS COMPLETED ON:

JOB TITLE:

DOT #:

EMPLOYEE:

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## **POTENTIAL MODIFICATIONS TO JOB**

1. Increased used of lightweight (aluminum) manhole covers
2. Anti-Exposure coverall & work suit is suggested for use as needed during the worse of Washington's inclement weather.



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## **SIGNATURES**

Signatures on this page are obtained before the document becomes available for use and are not required each time the document is reused. Obtained signatures are kept on file at King County Safety & Claims. The Health Care Provider signature section is separate and appears on the following page.

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Printed name & title of VRC evaluator

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Signature of VRC evaluator

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Date

---

Printed name & title of contact

---

Signature of contact

---

Date

---

Printed name & title of employee

---

Signature of employee

---

Date

KING COUNTY JOB ANALYSIS COMPLETED ON:

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### HEALTH CARE PROVIDER SECTION

Check all that apply

- ☐ The employee is released to perform the described duties without restrictions on performance or work hours as of \_\_\_\_\_.
- ☐ The employee is released to perform the described duties on a reduced schedule as of \_\_\_\_\_. The recommended schedule is: \_\_\_\_\_
- ☐ Temporary until \_\_\_\_\_ ☐ Permanent as of \_\_\_\_\_
- ☐ The employee is released to perform the described job with the following modifications: \_\_\_\_\_
- ☐ Temporary until \_\_\_\_\_ ☐ Permanent as of \_\_\_\_\_
- ☐ The employee is not released to perform the described duties due to the following job functions: \_\_\_\_\_
- ☐ Temporary until \_\_\_\_\_ ☐ Permanent effective \_\_\_\_\_
- ☐ The employee is unable to work in any capacity.  
A release to work is: ☐ anticipated by \_\_\_\_\_ ☐ Not expected

The limitations are due to the following objective medical findings: \_\_\_\_\_

Printed or typed name and phone number of Health Care Provider \_\_\_\_\_

Signature of Health Care Provider \_\_\_\_\_

Date \_\_\_\_\_